

xEnergy Basic

Wall-mounted and Floor-standing Switchboards
for Low-voltage Sub-distribution up to 630 A



Product Catalog

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193170_LDO_293313_LDO_501316_LDO1

Distribution Boards

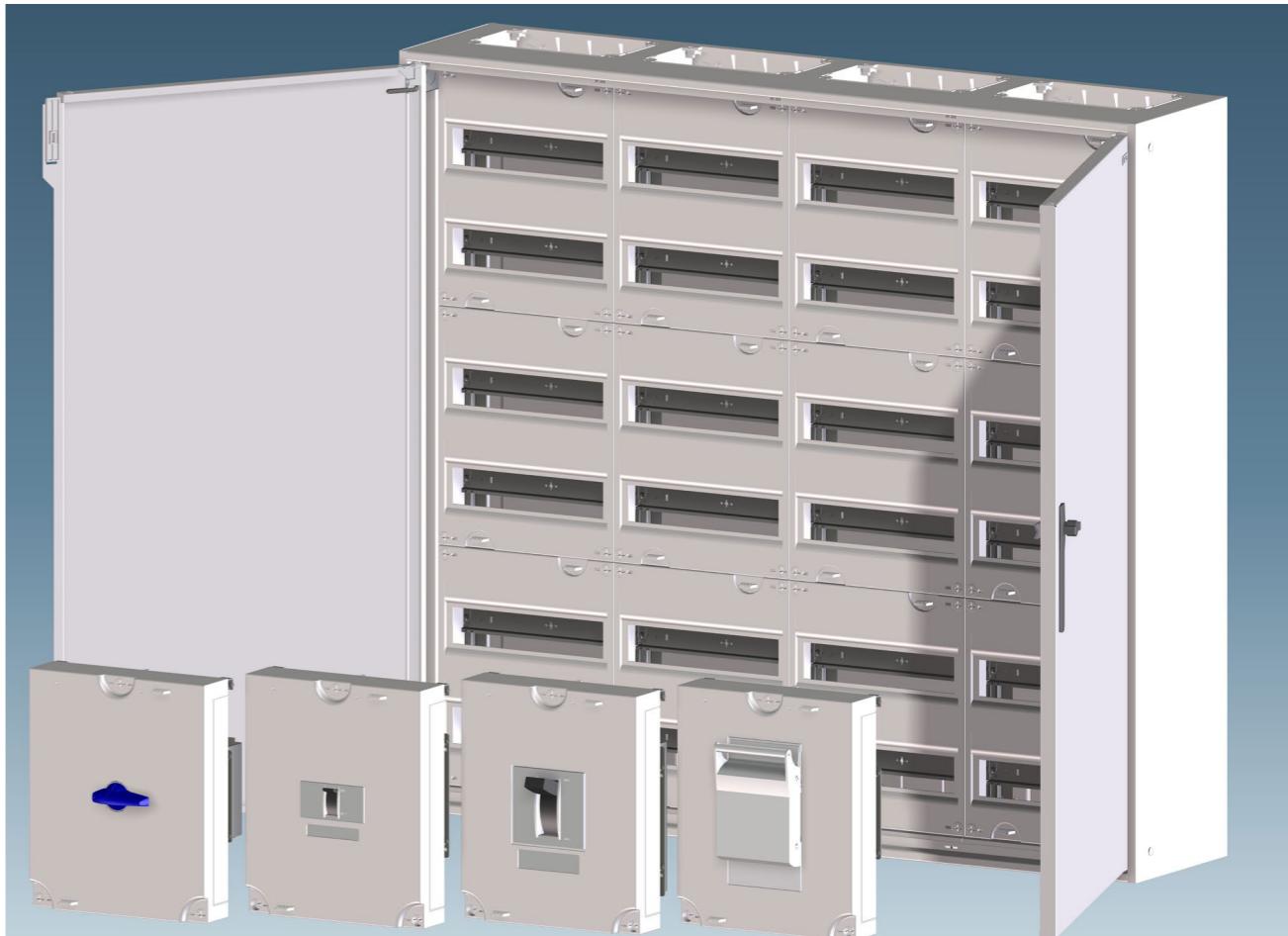
Distribution Boards

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Width [mm]	Height [mm]	Interior frame size W x H [mm]	Number of rows	Total number of modular units [MU]	Type designation Cat. No.	Description
EWK-G../31, IP31, protection class II (protective insulated) - complete assembly						

300 (12MU/row)	500	250x450	3	36	EWK-G13/31 193157	Ready-to-use enclosures incl. pre-equipped mounting insert, DIN-rails and covers / prepared for F3A-flanges on top/bottom/door with swing handle (to be retrofitted with BPZ-SH-L-1P)
	650	250x600	4	48	EWK-G14/31 193158	incl. 1x PE- and 1x N-combination plug-type terminal 6x 1.5-16 mm ² + 21x 0.75-4 mm ²
	800	250x750	5	60	EWK-G15/31 193159	
	950	250x900	6	72	EWK-G16/31 193160	
550 (24MU/row)	500	500x450	3	72	EWK-G23/31 193161	incl. 2x PE- and 2x N-combination plug-type terminal 6x 1.5-16 mm ² + 21x 0.75-4 mm ²
	650	500x600	4	96	EWK-G24/31 193162	
	800	500x750	5	120	EWK-G25/31 193163	
	950	500x900	6	144	EWK-G26/31 193164	
800 (36MU/row)	500	750x450	3	108	EWK-G33/31 193165	incl. 3x PE- and 3x N-combination plug-type terminal 6x 1.5-16 mm ² + 21x 0.75-4 mm ²
	650	750x600	4	144	EWK-G34/31 193166	
	800	750x750	5	180	EWK-G35/31 193167	
	950	750x900	6	216	EWK-G36/31 193168	
1050 (48MU/row)	800	1000x750	5	240	EWK-G45/31 193169	incl. 4x PE- and 4x N-combination plug-type terminal 6x 1.5-16 mm ² + 21x 0.75-4 mm ²
	950	1000x900	6	288	EWK-G46/31 193170	

System overview**EWK-G../31**

1. Ready-to-use enclosures incl. pre-equipped mounting insert, DIN-rails, N/PE-terminals and protective covers.
2. The flange apertures at the top/bottom are intended for F3A flanges and must be properly closed to ensure accordance with the IP31 degree of protection.
3. The enclosures can be mounted side by side and have been equipped with drilled holes and M8 thread inserts for this purpose (the add-on connection kit EMC2-AC55 can be ordered separately.)
4. Optionally, the standard turning lock can be replaced by a swing handle type BPZ-SH-L-1P (see general accessories).
5. The position of the mounting insert is perfectly matched to establish an efficient wiring from outside as well as internally from one section to the other.
6. The module widths of 300/550/800 mm have a single-door with single-point locking mechanism, while the 1050 mm version has two doors with a three-point locking mechanism; the left-hand door has to be locked first via a cam lock (top/bottom).
7. Special incomer kits for different devices (Dumeco, NZM or XNH up to 200 A) are possible to integrate in the top or bottom position of the enclosure.

xEnergy Distribution Boards

EWK Surface-mounted Field Distribution Boards, IP31

Frame size / Number of poles / Rated current [A]	Module height [mm] / Installation position	Type Designation	Cat. No.	Units per package
EWK-...-KIT, mounting kits for MCCBs and (fuse) switch disconnectors				
193695_L 	DMV160 3-/4-pole 125	300 Top / bottom	EWK-DMV160-KIT	195695 1
193696_L 	NZM1 3-/4-pole 125	300 Top / bottom	EWK-NZM1-KIT	193696 1
193697_L 	NZM2 3-/4-pole 200	300 Top / bottom	EWK-NZM2-KIT	193697 1
193698_L 	XNH00 3-pole 125	300 Top / bottom	EWK-XNH00-KIT	193698 1

xEnergy Basic**xEnergy Basic****xEnergy Distribution Boards**

EWK Surface-mounted Field Distribution Boards, IP31

Description	Type Designation	Cat. No.	Units per package
Combined plug-type terminal IP2X			
wa_v52713 	Terminal support complete, N/PE, 1-level	ZSD-PKL/NPE/1	217220 10
	Terminal support complete, N/PE, 2-levels	ZSD-PKL/NPE/2	226157 10
	Terminal support complete, N/PE, 1-level, 4 potentials	ZSD-PKL/NPE/1/4X4	267011 10
	Terminal support complete, N/PE, 2-levels, screwless	ZSD-PKL/NPE/2/C	101977 10
Plastic cover complete with 4 pcs. quick-release fasteners			
wa_v02312 	OA hood, 300 mm complete	ZSD-H300/OA/KLP	226578 1
	OA hood, 450 mm complete	ZSD-H450/OA/KLP	226756 1
Rail 35 x 7.5 mm width 1 (250 mm long)			
vt20415 	DIN rail for modular installation devices	ZSD-HTS	226549 1
Quick lock for plastic cover			
wa_vt04012 	Mounting spindle	ZSD-SPN	226543 1
Cover plate holder / mounting tower for plastic cover			
wa_vt14902 	Hood adapter	ZSD-AD/H	226544 1
Mounting rail for wall mounting			
vt13805 	Mounting rail completely, width 1	ZSD-MON/SN/B1	226596 1
	Mounting rail completely, width 2	ZSD-MON/SN/B2	226597 1
	Mounting rail completely, width 3	ZSD-MON/SN/B3	226598 1
	Mounting rail completely, width 4	ZSD-MON/SN/B4	226599 1

EWK Surface-mounted Field Distribution Boards, IP31**EWK**

- Degree of protection IP31, impact resistance IK08
- Protection class II, totally insulated
- Surface-mounted, enclosure depth of around 230 mm
- Complete with door and distribution sections for DIN-modular devices
- Combined plug-type terminals for neutral and protective conductor are included
- Device cover with quick-acting closure
- Fully removable DIN-rail support rack
- Stable and torsion-resistant DIN-rails
- Large wiring area behind the DIN-rails
- Possibility of direct wall mounting
- Fast and easy inversion of the door hinges, 110° opening angle

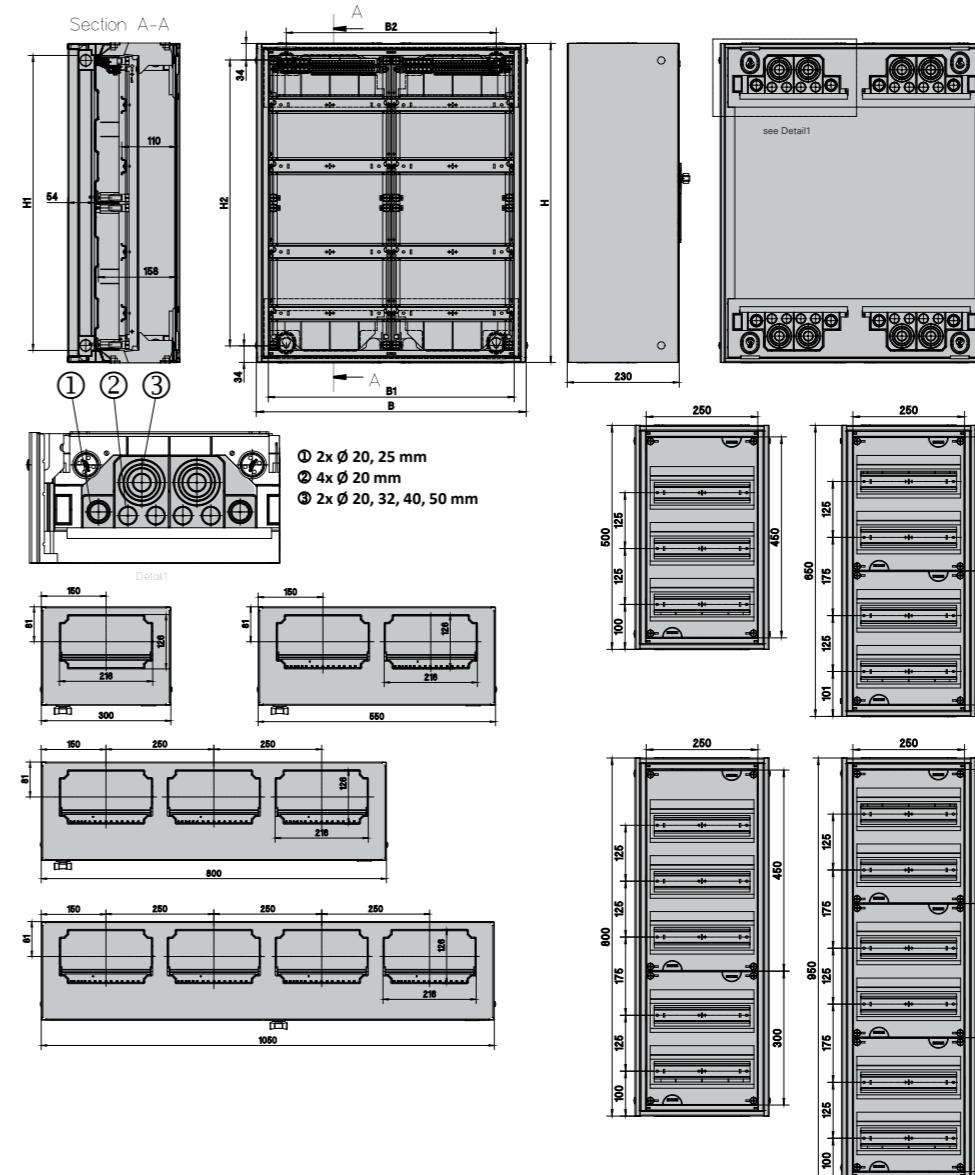
- For bigger enclosures (width of 1050 mm), the distribution board comes with a 3-point lock
- The standard turning lock enables the use of a swing handle for different semi-cylinder locks
- Generous cable entry openings prepared for F3A-flanges at the top/bottom
- Enclosure acc.to IEC/EN 62208, dedicated to build assemblies in accordance with IEC/EN 61439-3 Max. rated current between 63 - 200 A, depending on main incomer, enclosure size and design-verified application

Technical Data**EWK****Electrical**

Version according to	EN 62208
Degree of protection	IP31 acc.to EN 60529
Protection class	II, totally insulated acc.to DIN 43870
Rated voltage	400 V AC
Max. rated current	200 A

Mechanical

Material	Sheet steel, powder-coated with corrosion protection, inside lined with plastic (Polystyrole)
Enclosure	Sheet steel, powder-coated with corrosion protection
Door	Sheet steel, powder-coated with corrosion protection
Colour	
Enclosure	white RAL 9016
Door	non-transparent, white RAL 9016
Door opening angle	110°
Distance between rows	acc.to dimensional drawing
Support rail for devices	DIN rail 35 x 7.5 sheet steel, galvanised
Type of installation	Indoor
Prepared cable entry options	
EWK-G1...	1x F3A-flange cut-out top 1x F3A-flange cut-out bottom
EWK-G2...	2x F3A-flange cut-out top 2x F3A-flange cut-out bottom
EWK-G3...	3x F3A-flange cut-out top 3x F3A-flange cut-out bottom
EWK-G4...	4x F3A-flange cut-out top 4x F3A-flange cut-out bottom
Knock-outs in the plastic part per each 250 mm wide section	acc.to dimensional drawing (Detail 1)

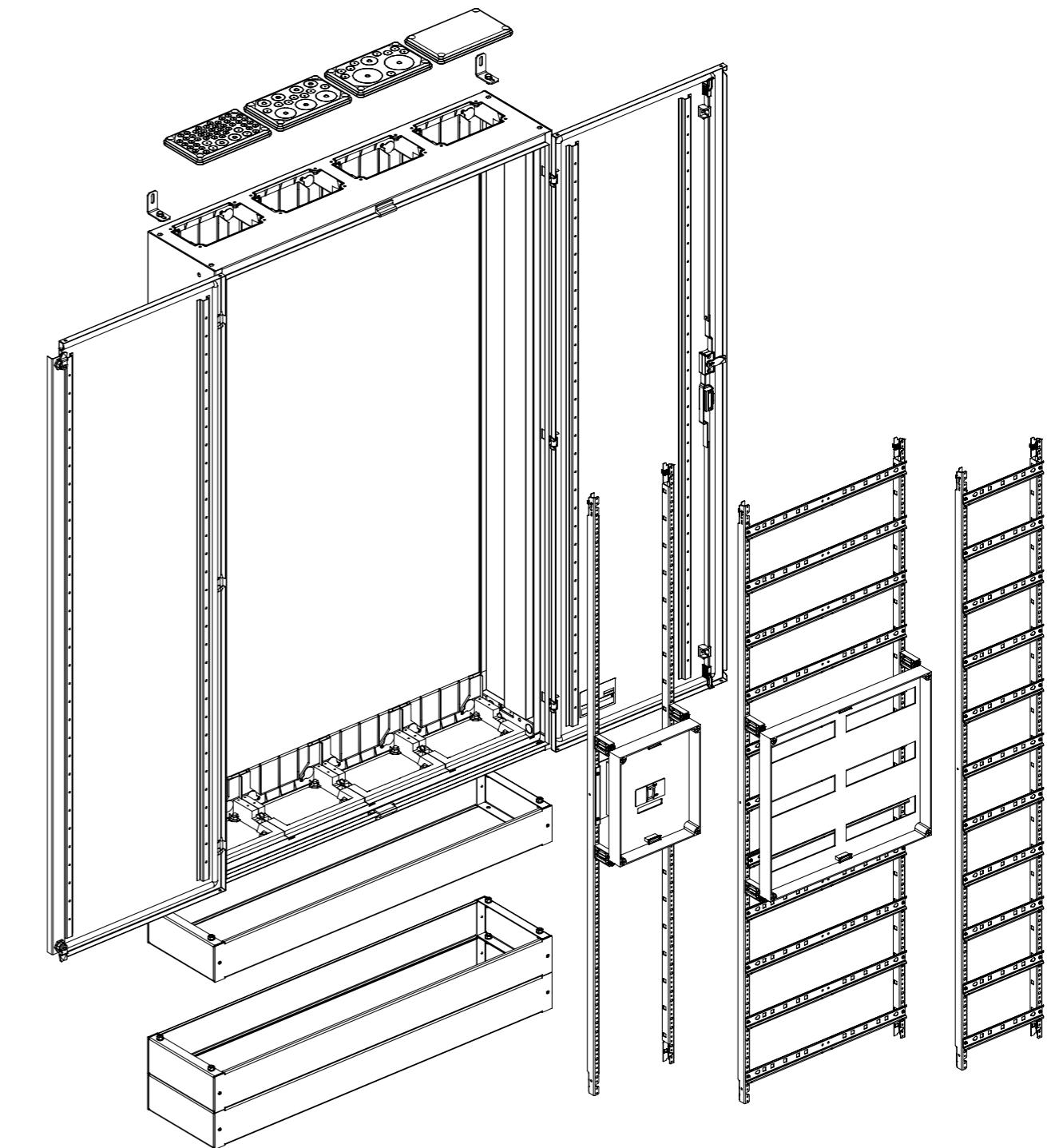
Dimensions (mm)**EWK**

Type	Overall dimensions		Internal dimensions (front plate)		Wall mounting (Enclosure directly)	Pv [W] (ΔT 20K)	Pv [W] (ΔT 35K)
	B	H	B1	H1			
EWK-G13/31		500		450	434	33	65
EWK-G14/31		650		600	584	40	80
EWK-G15/31	300	800	250	750	178	734	47
EWK-G16/31		950		900	884	54	107
EWK-G23/31		500		450	434	48	96
EWK-G24/31		650		600	584	58	116
EWK-G25/31	550	800	500	750	428	734	68
EWK-G26/31		950		900	884	75	150
EWK-G33/31		500		450	434	63	126
EWK-G34/31		650		600	584	66	132
EWK-G35/31	800	800	750	750	678	734	80
EWK-G36/31		950		900	884	97	195
EWK-G45/31		800		750	734	101	202
EWK-G46/31	1050	950	1000	900	928	884	133
							266

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System Overview**EMC2-H.../55-W, IP55**

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Surface-mounted and floor-standing distribution board EMC2-H.../55-W, IP55

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Width [mm]	Height [mm]	EP frame size W x H [mm]	Pre-assembled configuration dedicated for the use with EP system prepared for F3A-flanges on top/bottom door with swing handle BPZ-SH-L (3-point locking mechanism) Single-wing door design	Pre-assembled configuration dedicated for the use with EP system prepared for F3A-flanges on top/bottom door with swing handle BPZ-SH-L (3-point locking mechanism) Double-wing door design	Plinth 100 mm Side parts 1 pair / Front cover 1 pc.	Plinth 200 mm Side parts 1 pair / Front cover 1 pc.	Support profile vertical to accommodate EP inside EMC2 1 pair consists of left/right part used for 250 mm compartment	Pre-assembled mounting insert used for 250 mm compartment consists of 1 pair of EPTV and various number of EPTS7 (fully assembled)	Pre-assembled mounting insert used for 500 mm compartment consists of 1 pair of EPTV and various number of EPTS7 (fully assembled)	Rear cover plates used for top/bottom installation to close back-side cable entry 1 pair consists of two parts
			RAL 9016 white Empty	RAL 9016 white Empty	RAL 9016 white	RAL 9016 white				
			Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.
300 (12MU/row)	800	250x750	EMC2-H15/55-W EP-501300	-	EMC2-SS-1/250-W EP-501339	EMC2-SS-1/250-W EP-501360	EPTV750-EMC2 EP-501360 (2x)	EPTV15/TS7-EMC2 EP-501368	EPTV25/TS7-EMC2 EP-501376	EMC2-RCP-300-TB EP-501345
	950	250x900	EMC2-H16/55-W EP-501304	-	EMC2-FS-300/1-W EP-501340	EMC2-FS-300/1-W EP-501361 (2x)	EPTV900-EMC2 EP-501361	EPTV16/TS7-EMC2 EP-501369	EPTV26/TS7-EMC2 EP-501377	
	1100	250x1050	EMC2-H17/55-W EP-501309	-			EPTV1050-EMC2 EP-501362	EPTV17/TS7-EMC2 EP-501370	EPTV27/TS7-EMC2 EP-501378	
	1250	250x1200	EMC2-H18/55-W EP-501314	-			EPTV1200-EMC2 EP-501363	EPTV18/TS7-EMC2 EP-501371	EPTV28/TS7-EMC2 EP-501379	
	1400	250x1350	EMC2-H19/55-W EP-501319	-			EPTV1350-EMC2 EP-501364	EPTV19/TS7-EMC2 EP-501372	EPTV29/TS7-EMC2 EP-501380	
	1550	250x1500	EMC2-H110/55-W EP-501324	-			EPTV1500-EMC2 EP-501365	EPTV110/TS7-EMC2 EP-501373	EPTV210/TS7-EMC2 EP-501381	
	1700	250x1650	EMC2-H111/55-W EP-501329	-			EPTV1650-EMC2 EP-501366	EPTV111/TS7-EMC2 EP-501374	EPTV211/TS7-EMC2 EP-501382	
	1850	250x1800	EMC2-H112/55-W EP-501334	-			EPTV1800-EMC2 EP-501367	EPTV112/TS7-EMC2 EP-501375	EPTV212/TS7-EMC2 EP-501383	
550 (24MU/row)	800	500x750	EMC2-H25/55-W EP-501301	-	EMC2-SS-1/250-W EP-501339	EMC2-SS-1/250-W EP-501360 (2x)	EPTV750-EMC2 EP-501360	EPTV15/TS7-EMC2 EP-501368	EPTV25/TS7-EMC2 EP-501376	EMC2-RCP-550-TB EP-501346
	950	500x900	EMC2-H26/55-W EP-501305	-	EMC2-FS-550/1-W EP-501341	EMC2-FS-550/1-W EP-501361 (2x)	EPTV900-EMC2 EP-501361	EPTV16/TS7-EMC2 EP-501369	EPTV26/TS7-EMC2 EP-501377	
	1100	500x1050	EMC2-H27/55-W EP-501310	-			EPTV1050-EMC2 EP-501362	EPTV17/TS7-EMC2 EP-501370	EPTV27/TS7-EMC2 EP-501378	
	1250	500x1200	EMC2-H28/55-W EP-501315	-			EPTV1200-EMC2 EP-501363	EPTV18/TS7-EMC2 EP-501371	EPTV28/TS7-EMC2 EP-501379	
	1400	500x1350	EMC2-H29/55-W EP-501320	-			EPTV1350-EMC2 EP-501364	EPTV19/TS7-EMC2 EP-501372	EPTV29/TS7-EMC2 EP-501380	
	1550	500x1500	EMC2-H210/55-W EP-501325	-			EPTV1500-EMC2 EP-501365	EPTV110/TS7-EMC2 EP-501373	EPTV210/TS7-EMC2 EP-501381	
	1700	500x1650	EMC2-H211/55-W EP-501330	-			EPTV1650-EMC2 EP-501366	EPTV111/TS7-EMC2 EP-501374	EPTV211/TS7-EMC2 EP-501382	
	1850	500x1800	EMC2-H212/55-W EP-501335	-			EPTV1800-EMC2 EP-501367	EPTV112/TS7-EMC2 EP-501375	EPTV212/TS7-EMC2 EP-501383	
800 (36MU/row)	800	750x750	-	EMC2-H35/55-W EP-501302	EMC2-SS-1/250-W EP-501339	EMC2-SS-1/250-W EP-501360 (2x)	EPTV750-EMC2 EP-501360	EPTV15/TS7-EMC2 EP-501368	EPTV25/TS7-EMC2 EP-501376	EMC2-RCP-800-TB EP-501347
	950	750x900	-	EMC2-H36/55-W EP-501306	EMC2-FS-800/1-W EP-501342	EMC2-FS-800/1-W EP-501361 (2x)	EPTV900-EMC2 EP-501361	EPTV16/TS7-EMC2 EP-501369	EPTV26/TS7-EMC2 EP-501377	
	1100	750x1050	-	EMC2-H37/55-W EP-501311			EPTV1050-EMC2 EP-501362	EPTV17/TS7-EMC2 EP-501370	EPTV27/TS7-EMC2 EP-501378	
	1250	750x1200	-	EMC2-H38/55-W EP-501316			EPTV1200-EMC2 EP-501363	EPTV18/TS7-EMC2 EP-501371	EPTV28/TS7-EMC2 EP-501379	
	1400	750x1350	-	EMC2-H39/55-W EP-501321			EPTV1350-EMC2 EP-501364	EPTV19/TS7-EMC2 EP-501372	EPTV29/TS7-EMC2 EP-501380	

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Surface-mounted and floor-standing distribution board EMC2-H.../55-W, IP55



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Surface-mounted and floor-standing distribution board EMC2-H.../55-W, IP55

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Width [mm]	Height [mm]	EP frame size W x H [mm]	Pre-assembled configuration dedicated for the use with EP system prepared for F3A-flanges on top/bottom door with swing handle BPZ-SH-L (3-point locking mechanism) Single-wing door design	Pre-assembled configuration dedicated for the use with EP system prepared for F3A-flanges on top/bottom door with swing handle BPZ-SH-L (3-point locking mechanism) Double-wing door design	Plinth 100 mm Side parts 1 pair / Front cover 1 pc.	Plinth 200 mm Side parts 1 pair / Front cover 1 pc.	Support profile vertical to accommodate EP inside EMC2 1 pair consists of left/right part used for 250 mm compartment	Pre-assembled mounting insert used for 250 mm compartment consists of 1 pair of EPTV and various number of EPTS7 (fully assembled)	Pre-assembled mounting insert used for 500 mm compartment consists of 1 pair of EPTV and various number of EPTS7 (fully assembled)	Rear cover plates used for top/bottom installation to close back-side cable entry 1 pair consists of two parts	
			RAL 9016 white Empty	RAL 9016 white Empty	RAL 9016 white	RAL 9016 white					
			Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	
800 (36MU/row)	1550	750x1500	-	EMC2-H310/55-W EP-501326	EMC2-SS-1/250-W EP-501339	EMC2-SS-1/250-W EP-501339 (2x)	EPTV1500-EMC2 EP-501365	EPTV110/TS7-EMC2 EP-501373	EPTV210/TS7-EMC2 EP-501381	EMC2-RCP-800-TB EP-501347	
	1700	750x1650	-	EMC2-H311/55-W EP-501331	EMC2-FS-800/1-W EP-501342	EMC2-FS-800/1-W EP-501342 (2x)	EPTV1650-EMC2 EP-501366	EPTV111/TS7-EMC2 EP-501374	EPTV211/TS7-EMC2 EP-501382		
	1850	750x1800	-	EMC2-H312/55-W EP-501336			EPTV1800-EMC2 EP-501367	EPTV112/TS7-EMC2 EP-501375	EPTV212/TS7-EMC2 EP-501383		
1050 (48MU/row)	800	1000x750	-	EMC2-H45/55-W EP-501303	EMC2-SS-1/250-W EP-501339	EMC2-SS-1/250-W EP-501339 (2x)	EPTV750-EMC2 EP-501360	EPTV15/TS7-EMC2 EP-501368	EPTV25/TS7-EMC2 EP-501376	EMC2-RCP-1050-TB EP-501348	
	950	1000x900	-	EMC2-H46/55-W EP-501307	EMC2-FS-1050/1-W EP-501343	EMC2-FS-1050/1-W EP-501343 (2x)	EPTV900-EMC2 EP-501361	EPTV16/TS7-EMC2 EP-501369	EPTV26/TS7-EMC2 EP-501377		
	1100	1000x1050	-	EMC2-H47/55-W EP-501312			EPTV1050-EMC2 EP-501362	EPTV17/TS7-EMC2 EP-501370	EPTV27/TS7-EMC2 EP-501378		
	1250	1000x1200	-	EMC2-H48/55-W EP-501317			EPTV1200-EMC2 EP-501363	EPTV18/TS7-EMC2 EP-501371	EPTV28/TS7-EMC2 EP-501379		
	1400	1000x1350	-	EMC2-H49/55-W EP-501322			EPTV1350-EMC2 EP-501364	EPTV19/TS7-EMC2 EP-501372	EPTV29/TS7-EMC2 EP-501380		
	1550	1000x1500	-	EMC2-H410/55-W EP-501327			EPTV1500-EMC2 EP-501365	EPTV110/TS7-EMC2 EP-501373	EPTV210/TS7-EMC2 EP-501381		
	1700	1000x1650	-	EMC2-H411/55-W EP-501332			EPTV1650-EMC2 EP-501366	EPTV111/TS7-EMC2 EP-501374	EPTV211/TS7-EMC2 EP-501382		
	1850	1000x1800	-	EMC2-H412/55-W EP-501337			EPTV1800-EMC2 EP-501367	EPTV112/TS7-EMC2 EP-501375	EPTV212/TS7-EMC2 EP-501383		
1300 (60MU/row)	800	1250x750	-		EMC2-SS-1/250-W EP-501339	EMC2-SS-1/250-W EP-501339 (2x)	EPTV750-EMC2 EP-501360	EPTV15/TS7-EMC2 EP-501368	EPTV25/TS7-EMC2 EP-501376	EMC2-RCP-1300-TB EP-501349	
	950	1250x900	-		EMC2-H56/55-W EP-501308	EMC2-FS-1300/1-W EP-501344	EMC2-FS-1300/1-W EP-501344 (2x)	EPTV900-EMC2 EP-501361	EPTV16/TS7-EMC2 EP-501369	EPTV26/TS7-EMC2 EP-501377	
	1100	1250x1050	-		EMC2-H57/55-W EP-501313		EPTV1050-EMC2 EP-501362	EPTV17/TS7-EMC2 EP-501370	EPTV27/TS7-EMC2 EP-501378		
	1250	1250x1200	-		EMC2-H58/55-W EP-501318		EPTV1200-EMC2 EP-501363	EPTV18/TS7-EMC2 EP-501371	EPTV28/TS7-EMC2 EP-501379		
	1400	1250x1350	-		EMC2-H59/55-W EP-501323		EPTV1350-EMC2 EP-501364	EPTV19/TS7-EMC2 EP-501372	EPTV29/TS7-EMC2 EP-501380		
	1550	1250x1500	-		EMC2-H510/55-W EP-501328		EPTV1500-EMC2 EP-501365	EPTV110/TS7-EMC2 EP-501373	EPTV210/TS7-EMC2 EP-501381		
	1700	1250x1650	-		EMC2-H511/55-W EP-501333		EPTV1650-EMC2 EP-501366	EPTV111/TS7-EMC2 EP-501374	EPTV211/TS7-EMC2 EP-501382		
	1850	1250x1800	-		EMC2-H512/55-W EP-501338		EPTV1800-EMC2 EP-501367	EPTV112/TS7-EMC2 EP-501375	EPTV212/TS7-EMC2 EP-501383		

xEnergy Basic
Sheet 4/4xEnergy Distribution Boards
Surface-mounted and floor-standing distribution board EMC2-H.../55-W, IP55

xEnergy Distribution Boards

Surface-mounted and floor-standing distribution board EMC2-H.../55-W, IP55

xEnergy Basic

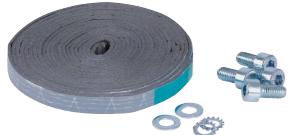
vt28610

**Wall fixing bracket set for EMC2 series**

- For all kind of floor-standing cabinets to fix them towards the wall against toggling
- One set includes 2 wall fixing brackets plus mounting accessories
- Especially for EMC2 these brackets can be used for external wall-mounting as well (2 sets required)

Description	Type Designation	Cat. No.	Units per package
Wall fixing bracket set for EMC2 series			
1 set = 2 brackets (top fixing for floor-standing cabinets)	BPZ-WW	142474	1
2 sets = 4 brackets (external mounting for wall-enclosures)	BPZ-WW	142474	1

vt05118

**Add-on connection kit EMC2**

- For a proper arrangement (side-by-side) of two or more cabinets taking into account of the degree of protection
- Set consists of screws, washers and gasket
- 1 set is needed for each lateral connection

Depth of 270 mm / various heights	EMC2-AC55	EP-501356	1
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501358_L

**Spare part hinge (180°) for EMC2**

- Replacement for all type of EMC2 variants considering all single- and double-wing door design
- Each door is equipped with 3 hinges, visible from outside, 180° design, black colored
- 1 metal hinge consists of two parts incl. hinge pin

Spare part hinge	EMC2-MH	EP-501358	1
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501359_L

**SNAP fastener for support profile vertical as spare part**

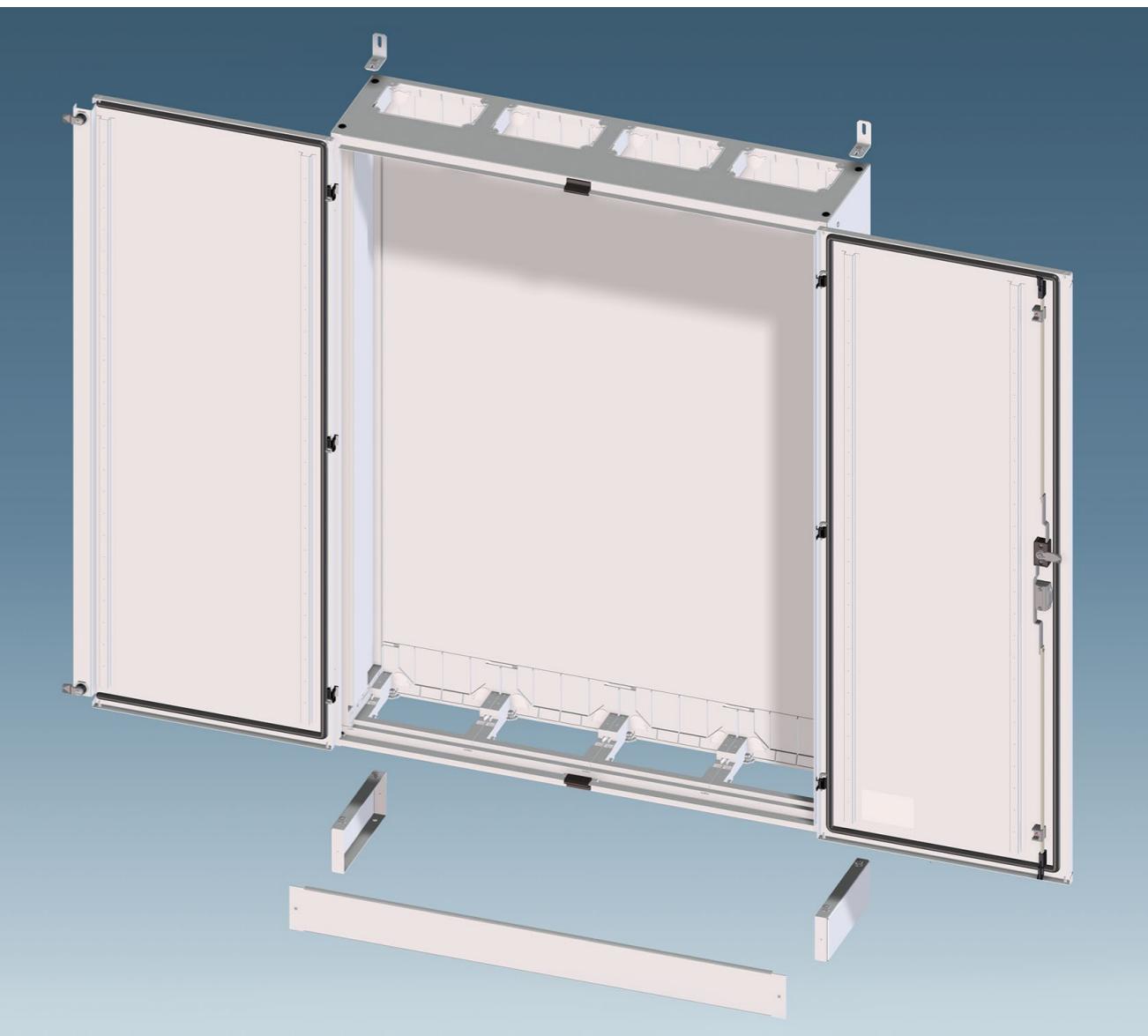
- SNAP fastener for fixing of support profiles / mounting insert inside EWK and EMC2 enclosure series
- The fastener enables tool-less actuation when inserting the profiles to the enclosure
- Operation by Phillips H2, releasing by a 1/4 turn of the screw

SNAP fastener	EMC2-SNAP095	EP-501359 *)	10
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*) Cat. No. and price per piece

xEnergy Basic

Surface-mounted and floor-standing distribution board EMC2-H.../55-W, IP55

System overview**EMC2-H.../55-W**

1. The new series is fully compatible with Eaton's existing EP system components; it boasts a new interior frame design
2. The insert can be placed at the bottom of the distribution board and secured in place at the top by means of novel snap fasteners.
3. The new design has made it possible to decrease the external footprint of the enclosure, effectively reducing the height and width by 50 mm, without compromising on the space available inside.
4. Thanks to perfectly designed internal cladding, the enclosure is compliant with IEC protection class II requirement
5. External doors with a swing of 180 degrees incl. three-point locking mechanism and swing handle by standard
6. With the new external door, there is no gap between door and enclosure, for an improved overall appearance.
7. The EMC2 enclosures are equipped with large flange openings at the top and bottom that match Eaton's comprehensive portfolio of F3A flanges
8. The enclosure depth of 270 mm has been carefully chosen to match both the available flange openings and the EP assembly system to further simplify the wiring work
9. All EMC2 models are rated IP55 overall, and IP2XC with open doors and closed protection covers to provide for enhanced personnel protection.
10. Eaton also offers plinths with a height of 100 mm, which can be combined or used individually, and additional cable-entry knockouts are available at the rear.
11. All versions can be wall-mounted or used as floor-standing enclosures. Special provisions in the side panels ensure that the enclosures can be quickly and easily bayed, without any adverse impact on the protective insulation

Description**EMC2-H.../55-W**

- Complete cabinets, dedicated to the use of EP mounting units
- "Space-optimized design" enables slimmer outer dimensions with the same inner dimensions
- Degree of protection IP55
- Impact resistance IK10
- Protection class II (protective insulation)
- Cable entry prepared for F3A flanges, top/bottom
- Quick and easy change of the hinge direction, door opening angle 180°
- Three-point locking mechanism with swing handle
- Direct wall mounting possible, wall-fixing brackets optionally included in the accessories
- Enclosure made from powder-coated sheet steel with interior plastic cladding, RAL 9016 (traffic white)
- Lateral mounting points ensure that several enclosures can be mounted side by side
- The entire assortment is ready to use for surface-mounted as well as floor-standing installation (optionally with plinth)

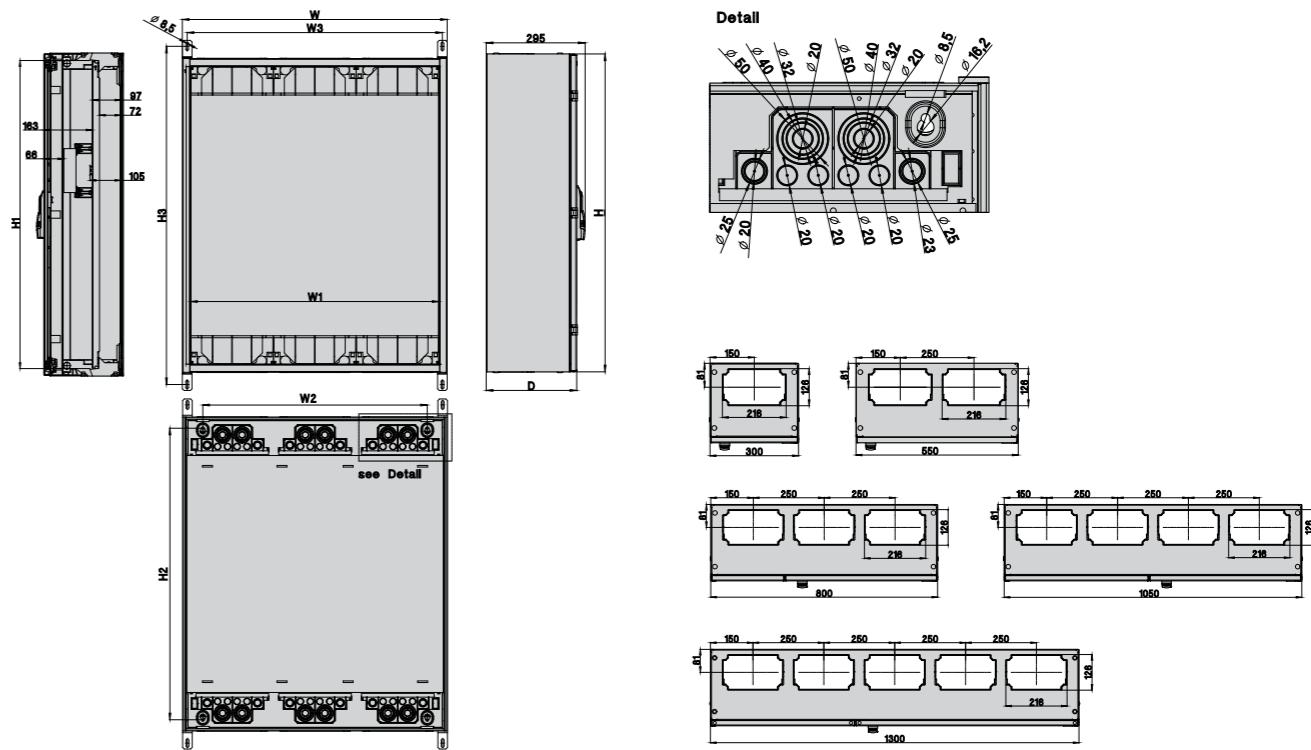
Technical data**EMC2-H.../55-W**

Electrical	
Type conforms to	IEC/EN 62208
Protection class	II (protective insulation)
Degree of protection	IP55 (closed version with door/flanges) IP2XC (open door, the installation level is properly protected with EP covers)
Impact resistance	IK10
Rated operational voltage	415 VAC / 50 Hz
Rated current	Max. 630 A (depending on the type of incoming circuit breaker or the busbar system being used)

The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1. For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35°C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc. to IEC/TR 60890).

Mechanical

Enclosure	Excellent stability thanks to the welded construction Max. permissible load of the enclosure according to IEC/EN 62208: 200 kg
Material	Sheet steel, phosphated and polyester powder coated (untextured surface) with corrosion protection
Colour	Traffic white, RAL 9016
Door	With continuous foamed gasket, hinges on the outside (visible), door opening angle 180° Max. permissible load of the door(s) according to IEC/EN 62208: 10 kg
Type	Flexible interior fittings with EP mounting units on system support frame dedicated set of vertical profiles (EPTV...-EMC2) per 250 mm wide compartment has to be ordered separately pre-assembled mounting inserts incl. DIN-rails are available as standard catalogue items
Locking mechanism	Three-point locking mechanism with swing handle, lock cylinder optionally included in the accessories
Cable entry	Open, prepared for the insertion of two standard F3A flanges for each 250 mm wide module (top/bottom)
Ambient conditions	Indoor installation (wall mounting) Max. ambient temperature +40°C Min. ambient temperature -5°C
Halogen-free, RoHS	< 1%, ja
Accessories	Wall-fixing brackets for wall mounting, a 100 mm base if used as a floor-standing cabinet, lock cylinders as inserts for swing handles, various F3A flanges for cable entry, add-on connection kit
Delivered as	Complete cabinets (pre-mounted), dedicated to the use of EP mounting units (without EPTV...-EMC2)

Dimensions (mm)**EMC2**

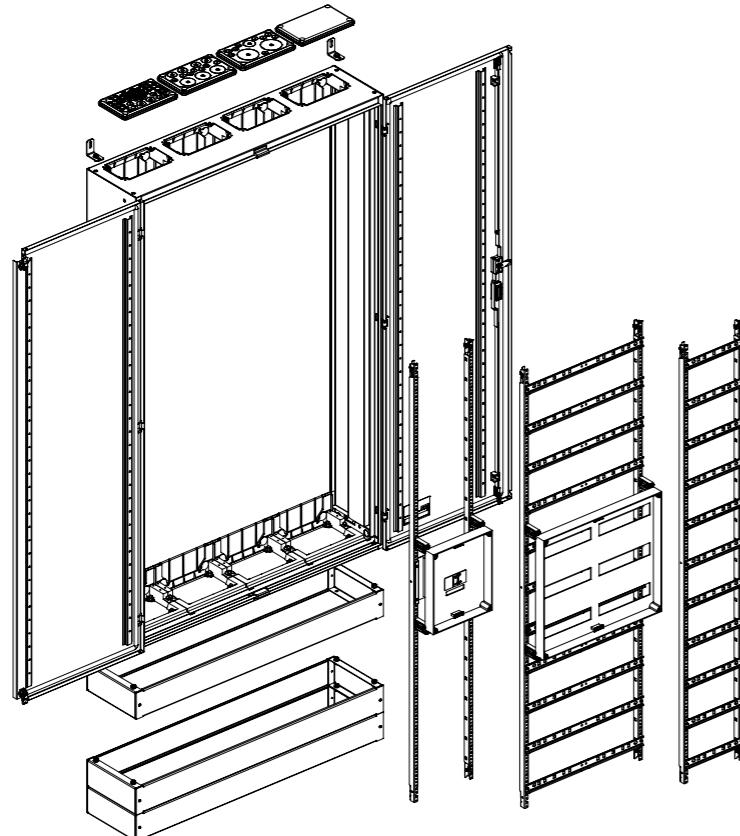
Type	Overall dimensions			Internal dimensions (front plate)		Wall mounting (Enclosure directly)		Wall mounting (via fixing bracket set)		Thermal dissipation of the enclosure acc. to IEC/TR 60890	
	W	H	D	W1	H1	W2	H2	W3	H3	Pv [W] (ΔT 20K)	Pv [W] (ΔT 35K)
EMC2-H15/55-W	800				750			734	875	47	95
EMC2-H16/55-W	950				900			884	1025	54	108
EMC2-H17/55-W	1100				1050			1034	1175	60	121
EMC2-H18/55-W	300	1250	270	250	1200	178	1184	271	1325	67	134
EMC2-H19/55-W	1400				1350			1334	1475	71	142
EMC2-H110/55-W	1550				1500			1484	1625	75	150
EMC2-H111/55-W	1700				1650			1634	1775	79	159
EMC2-H112/55-W	1850				1800			1784	1925	83	167
EMC2-H25/55-W	800				750			734	875	68	136
EMC2-H26/55-W	950				900			884	1025	72	144
EMC2-H27/55-W	1100				1050			1034	1175	76	152
EMC2-H28/55-W	550	1250	270	500	1200	428	1184	521	1325	80	160
EMC2-H29/55-W	1400				1350			1334	1475	89	179
EMC2-H210/55-W	1550				1500			1484	1625	98	197
EMC2-H211/55-W	1700				1650			1634	1775	107	215
EMC2-H212/55-W	1850				1800			1784	1925	118	236
EMC2-H35/55-W	800				750			734	875	82	165
EMC2-H36/55-W	950				900			884	1025	95	190
EMC2-H37/55-W	1100				1050			1034	1175	108	217
EMC2-H38/55-W	800	1250	270	750	1200	678	1184	771	1325	120	241
EMC2-H39/55-W	1400				1350			1334	1475	133	267
EMC2-H310/55-W	1550				1500			1484	1625	147	295
EMC2-H311/55-W	1700				1650			1634	1775	160	321
EMC2-H312/55-W	1850				1800			1784	1925	170	341
EMC2-H45/55-W	800				750			734	875	112	224
EMC2-H46/55-W	950				900			884	1025	130	260
EMC2-H47/55-W	1100				1050			1034	1175	147	295
EMC2-H48/55-W	1050	1250	270	1000	1200	928	1184	1021	1325	167	334
EMC2-H49/55-W	1400				1350			1334	1475	184	368
EMC2-H410/55-W	1550				1500			1484	1625	194	388
EMC2-H411/55-W	1700				1650			1634	1775	203	407
EMC2-H412/55-W	1850				1800			1784	1925	211	423
EMC2-H56/55-W	950				900			884	1025	167	335
EMC2-H57/55-W	1100				1050			1034	1175	192	385
EMC2-H58/55-W	1250				1200			1184	1325	208	417
EMC2-H59/55-W	1300	1400	270	1250	1350	1178	1334	1271	1475	221	442
EMC2-H510/55-W	1550				1500			1484	1625	232	464
EMC2-H511/55-W	1700				1650			1634	1775	242	484
EMC2-H512/55-W	1850				1800			1784	1925	251	504

xEnergy Distribution Boards

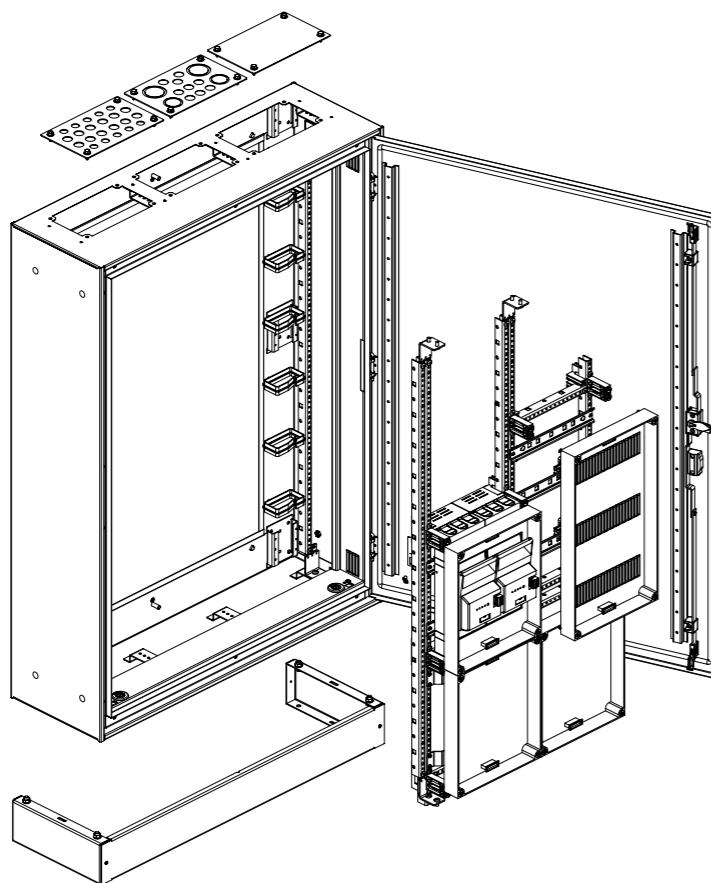
Surface-mounted distribution board BPM-O-...-EP, IP55

System Overview

BP-O-...-EP-W, IP31



BPM-O-...-EP(-W), IP55



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xEnergy Distribution Boards

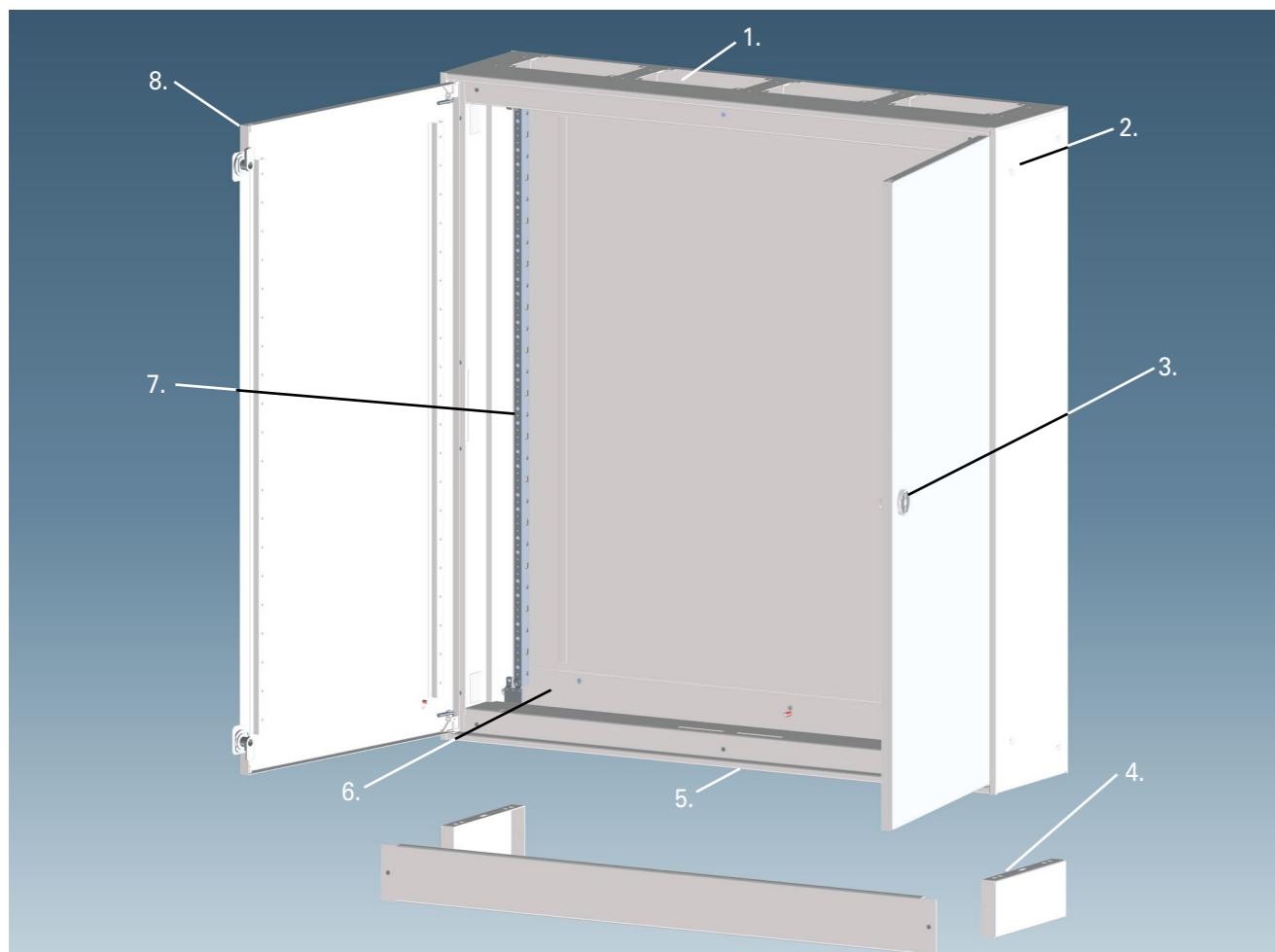
Surface-mounted distribution board BP-O-...-EP-W, IP31



Width [mm]	Height [mm]	EP frame size W x H [mm]	Pre-assembled configuration dedicated to intended for use with EP installation system prepared for F3A-flanges on top / Door with swing handle	Plinth 100 mm Side parts 1 pair / Front cover	Support rail vertical to accomodate 250 mm Module width + bracket at least 2 pcs. of EPTV to realize two / 250 mm compartments in width 600 mm
		RAL 9016 white Empty		RAL 9016 white	
		Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

BP-O-...-EP-W, IP31 - fully assembled

350 (12MU/row)	860	250x750	BP-O-350/8-EP-W	BPZ-SS-1/249-W	-
			193171	119174	
			BP-O-350/11-EP-W	BPZ-FS-350/1-W	194546
600 (24MU/row)	860	250x1350	BP-O-350/14-EP-W	-	
			300945		
			BP-O-600/8-EP-W	BPZ-SS-1/249-W	EPTV750 + BPZ-TW 143842 + 143864
850 (36MU/row)	860	500x750	193173	119174	
			BP-O-600/11-EP-W	BPZ-FS-600/1-W	EPTV1050 + BPZ-TW 143844 + 143864
			193174	293498	
1100 (48MU/row)	860	500x1350	BP-O-600/14-EP-W	BPZ-SS-1/249-W	EPTV1350 + BPZ-TW 143846 + 143864
			193175	119174	
			BP-O-850/8-EP-W	BPZ-FS-850/1-W	EPTV750 + BPZ-TW 143842 + 143864
1100 (48MU/row)	1160	750x750	193176	119174	
			BP-O-850/11-EP-W	BPZ-FS-850/1-W	EPTV1050 + BPZ-TW 143844 + 143864
			193177	194547	
1100 (48MU/row)	1460	750x1350	BP-O-850/14-EP-W	BPZ-SS-1/249-W	EPTV1350 + BPZ-TW 143846 + 143864
			193178	119174	
			BP-O-1100/8-EP-W	BPZ-FS-1100/1-W	EPTV750 + BPZ-TW 143842 + 143864
1100 (48MU/row)	1160	1000x750	193179	119174	
			BP-O-1100/11-EP-W	BPZ-FS-1100/1-W	EPTV1050 + BPZ-TW 143844 + 143864
			193180	194548	
1100 (48MU/row)	1460	1000x1350	BP-O-1100/14-EP-W	BPZ-SS-1/249-W	EPTV1350 + BPZ-TW 143846 + 143864
			193181	119174	
			BP-O-1100/11-EP-W	BPZ-FS-1100/1-W	

System overview**BP-O-...-EP-W**

1. The flange apertures at the top are intended for F3A flanges and must be properly closed to ensure accordance with the IP55 degree of protection.
2. The enclosures can be mounted side by side and have been equipped with drilled holes and M8 thread inserts for this purpose. (The add-on connection kit BPZ-AC55-O can be ordered separately.)
3. Optionally, the standard plastic cam lock can be replaced with the metal lock BPZ-LOCK or BPZ-LOCK/DBIT3 (see accessories).
4. For the floor-standing solution, the use of base elements is recommended. (Side parts BPZ-SS-1/249-W with front plate BPZ-FS-.../1-W can be ordered separately, depending on the width.)
5. The bottom of the enclosure does not have any pre-drilled holes for cable entry. If required, customers are able to prepare these holes themselves, and they can also rotate the mounting position of the enclosure by 180°.
6. The device can be mounted directly on the wall using either the pre-drilled holes at the back or the (external) wall-fixing brackets WFB-SET-CS (see accessories).

7. The vertical EPTV mounting rails are already pre-installed on delivery (at the left/right). Depending on the interior fittings, implementing the desired switchgear assembly may require the configuration of additional EPTVs. (The depth of the EP support frame can be adjusted by up to 25 mm.)
8. The module widths of 350/600/850 mm have a single-door with single-point locking mechanism, while the 1,100 mm version has two doors with a three-point locking mechanism; the left-hand door has to be locked first via a cam lock (top/bottom).

Description**BP-O-...-EP-W**

- Complete cabinets, prepared and ready for the installation of EP mounting units
- Degree of protection IP31
- Impact resistance IK08
- Protection class I (protective earth)
- Cable entry prepared for F3A flange
- The enclosure can be rotated by 180°
- Quick and easy change of the hinge direction, door opening angle 100°
- Standard plastic cam lock
- Direct wall mounting possible, wall-fixing brackets optionally included in the accessories

- Enclosure made from powder-coated sheet steel, RAL 9016 (traffic white)
- Lateral mounting points ensure that several enclosures can be mounted side by side

Technical data**BP-O-...-EP-W****Electrical**

Type conforms to	IEC/EN 62208
Protection class	I (protective earth)
Degree of protection	IP31 (closed version with door/flansche) IP2XC (open door, the installation level is properly protected with EP covers)
Impact resistance	IK08
Rated operational voltage	415 VAC / 50 Hz
Rated current	Max. 630 A (depending on the type of incoming circuit breaker or the busbar system being used)

Earthing concept for the enclosure

Main earthing	By means of M8 welding bolts
Door earthing	By means of M6 welding bolts

The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1.

For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35° C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc.to IEC/TR 60890).

Mechanical

Enclosure	Excellent stability thanks to the welded construction
Material	Sheet steel, phosphated and polyester powder coated (structured) with corrosion protection
Colour	Traffic white, RAL 9016
Door	Hinges on the inside, door opening angle 100°
Type	Flexible interior fittings with EP mounting units on system support frame vertical EPTV support frames are pre-installed on the left and right
Locking mechanism	Standard cam lock (plastic), can be exchanged for a metal lock with standard locking mechanism/two-way key bit
Cable entry	Open, prepared for the insertion of one standard F3A flange for each 250 mm wide module
Ambient conditions	Indoor installation (wall mounting) Max. ambient temperature +40° C Min. ambient temperature -5° C
Halogen-free, RoHS	< 1%, yes
Accessories	Wall-fixing brackets for wall mounting, a 100 mm base if used as a floor-standing cabinet, alternative lock options, add-on connection kit
Delivered as	Complete cabinet, including two units each of EPTV and BPZ-TW, in preparation for the interior fittings with EP (for each 250 mm wide module, an additional pair of EPTV and BPZ-TW units are required)

xEnergy Distribution Boards

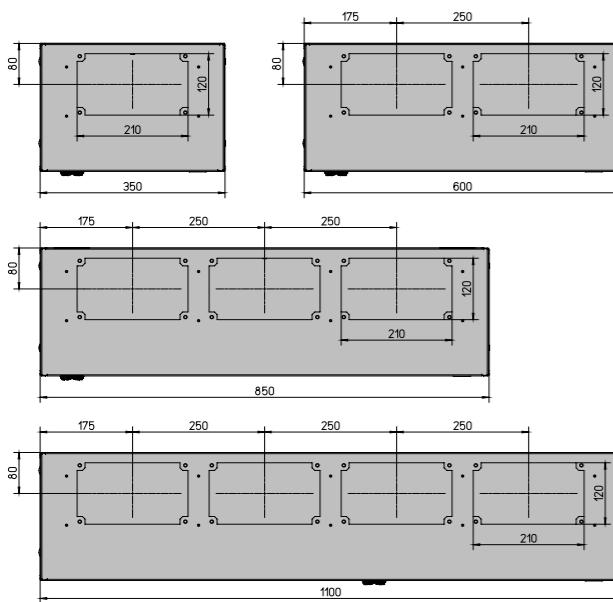
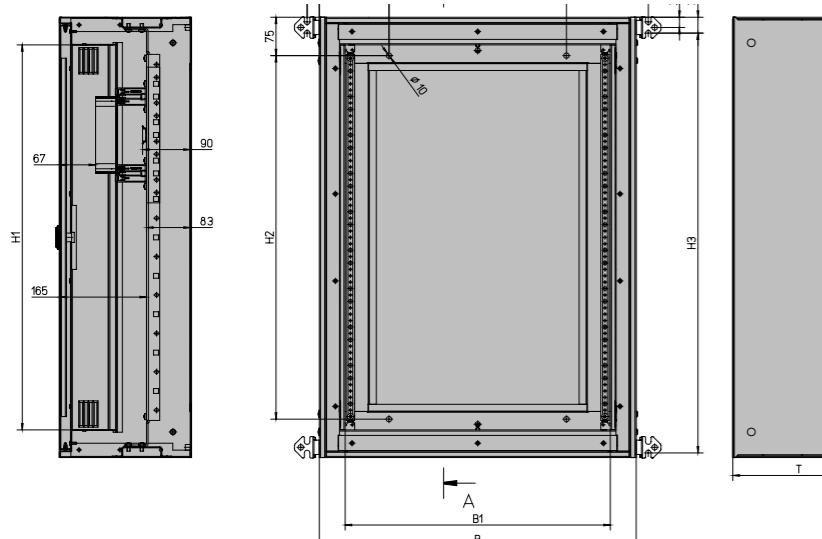
Surface-mounted distribution board BP-O-...-EP-W, IP31

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Dimensions (mm)

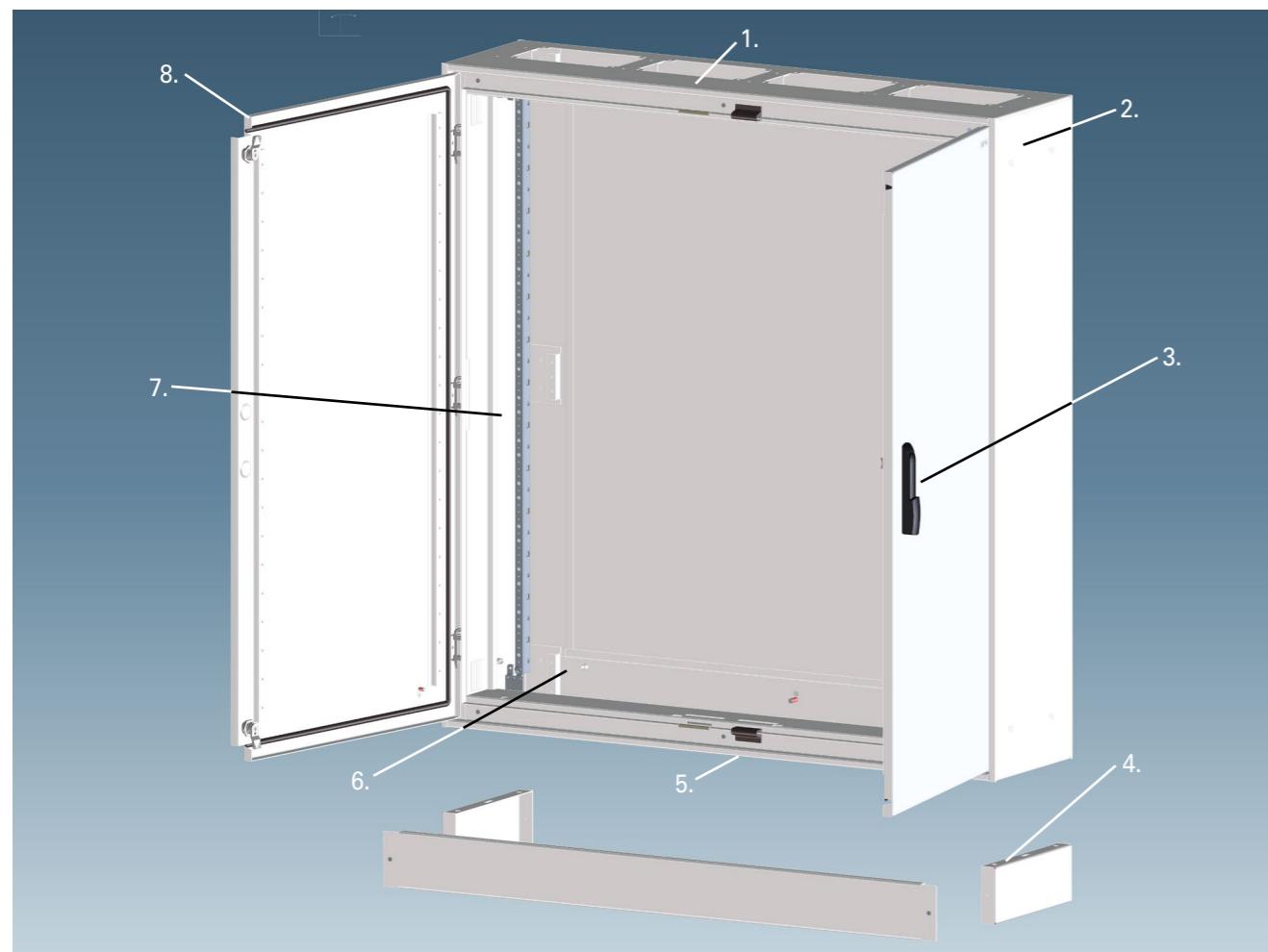
BP-O-...-EP-W



Type	Overall dimensions			Internal dimensions (front plate)		Wall mounting (Enclosure directly)		Wall mounting (via fixing bracket set)		Pv [W] (ΔT 20K)	Pv [W] (ΔT 35K)
	Width B	Height H	Depth T	Width B1	Height H1	Width B2	Height H2	Width B3	Height H3		
BP-O-350/8-EP-W	350	860	250	250	750	86	710	396	820	53	107
BP-O-350/11-EP-W	350	1160	250	250	1050	86	1010	396	1120	67	135
BP-O-350/14-EP-W	350	1460	250	250	1350	86	1310	396	1420	55	110
BP-O-600/8-EP-W	600	860	250	500	750	336	710	646	820	62	125
BP-O-600/11-EP-W	600	1160	250	500	1050	336	1010	646	1120	73	146
BP-O-600/14-EP-W	600	1460	250	500	1350	336	1310	646	1420	91	182
BP-O-850/8-EP-W	850	860	250	750	750	586	710	896	820	83	167
BP-O-850/11-EP-W	850	1160	250	750	1050	586	1010	896	1120	111	222
BP-O-850/14-EP-W	850	1460	250	750	1350	586	1310	896	1420	134	270
BP-O-1100/8-EP-W	1100	860	250	1000	750	836	710	1146	820	114	228
BP-O-1100/11-EP-W	1100	1160	250	1000	1050	836	1010	1146	1120	151	303
BP-O-1100/14-EP-W	1100	1460	250	1000	1350	836	1310	1146	1420	188	376



Width [mm]	Height [mm]	EP frame size W x H [mm]	Pre-assembled configuration dedicated to intended for use with EP installation system prepared for F3A-flanges on top / Door with clip-down handle	Plinth 100 mm Side parts 1 pair / Front cover.	Support rail vertical to accomodate 250 mm / Module width + bracket at least 2 pcs. of EPTV to realize two / 250 mm compartments in width 600 mm
		RAL 9016 white	RAL 7035 grey	RAL 9016 white [RAL 7035 grey]	
		Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.
		BPM-O-...-EP, IP55 - fully assembled			
350 (12MU/row)	860	250x750	BPM-O-350/8-P-EP-W 193648	BPM-O-350/8-P-EP 195316	BPZ-SS-1/270-W 119173 [BPZ-SS-1/270]
	1160	250x1050	BPM-O-350/11-P-EP-W 193649	BPM-O-350/11-P-EP 195317	BPZ-FS-350/1-W 194546 [BPZ-FS-350/1] [142456]
600 (24MU/row)	860	500x750	BPM-O-600/8-P-EP-W 193182	BPM-O-600/8-P-EP 195318	BPZ-SS-1/270-W 119173 [BPZ-SS-1/270]
	1160	500x1050	BPM-O-600/11-P-EP-W 193183	BPM-O-600/11-P-EP 195319	BPZ-FS-600/1-W 293498 [BPZ-FS-600/1] [293497]
850 (36MU/row)	860	750x750	BPM-O-850/8-P-EP-W 193185	BPM-O-850/8-P-EP 195321	BPZ-SS-1/270-W 119173 [BPZ-SS-1/270]
	1160	750x1050	BPM-O-850/11-P-EP-W 193186	BPM-O-850/11-P-EP 195322	BPZ-FS-850/1-W 194547 [BPZ-FS-850/1] [142457]
1100 (48MU/row)	860	1000x750	BPM-O-1100/8-P-EP-W 193188	BPM-O-1100/8-P-EP 195324	BPZ-SS-1/270-W 119173 [BPZ-SS-1/270]
	1160	1000x1050	BPM-O-1100/11-P-EP-W 193189	BPM-O-1100/11-P-EP 195325	BPZ-FS-1100/1-W 194548 [BPZ-FS-1100/1] [142458]
1350 (60MU/row)	1160	1250x1050	BPM-O-1350/11-P-EP-W 302406	-	BPZ-SS-1/270-W 119173 [BPZ-SS-1/270]
	1460	1250x1050	BPM-O-1350/14-P-EP-W 302407	-	BPZ-FS-1350/1-W 302819 [BPZ-FS-1350/1] [143864]
					EPTV750 + BPZ-TW 143842 + 143864
					EPTV1050 + BPZ-TW 143844 + 143864
					EPTV1350 + BPZ-TW 143846 + 143864
					EPTV750 + BPZ-TW 143842 + 143864
					EPTV1050 + BPZ-TW 143844 + 143864
					EPTV1350 + BPZ-TW 143846 + 143864
					EPTV1050 + BPZ-TW 143844 + 143864
					EPTV1350 + BPZ-TW 143846 + 143864

System overview**BPM-O-...-EP**

1. The flange apertures at the top are intended for F3A flanges and must be properly closed to ensure accordance with the IP55 degree of protection

2. The enclosures can be mounted side by side and have been equipped with pre-drilled holes and M8 thread inserts for this purpose. (The add-on connection kit BPZ-AC55-O can be ordered separately.)

3. Optionally, the plastic swing handle can be equipped with a profile half cylinder type PHZ-... (see accessories).

4. For the floor-standing version, the use of base elements is recommended. (The side parts BPZ-SS-1/270-W with front plate BPZ-FS-.../1-W can be ordered separately, depending on the module width).

5. The bottom of the enclosure does not have any pre-drilled holes for cable entry. If required, customers are able to prepare these holes themselves, and they can also rotate the mounting position of the enclosure by 180°.

6. The device can be mounted directly on the wall using either the pre-drilled holes at the back or the (external) wall-fixing brackets WFB-SET-CS (see accessories).

7. The vertical EPTV mounting rails are already pre-installed on delivery (at the left/right). Depending on the interior fittings, implementing the desired switchgear assembly may require the configuration of additional EPTVs. (The depth of the EP support frame can be adjusted by up to 25 mm.)

8. The standard version uses a three-point locking mechanism with drive rods. The module widths of 350/600/850 mm have a single-door, while the 1,100 mm version has two doors; the left-hand door has to be locked first using a two-way key bit (top/bottom).

Description**BPM-O-...-EP**

- Complete cabinets, prepared and ready for the installation of EP mounting units
- Degree of protection IP55
- Impact resistance IK10
- Protection class I (protective earth)
- Cable entry prepared for F3A flange
- The enclosure can be rotated by 180°
- Quick and easy change of the hinge direction, door opening angle 100°
- Three-point locking mechanism with swing handle
- Direct wall mounting possible, wall-fixing brackets optionally included in the accessories
- Enclosure made from powder-coated sheet steel, RAL 9016 (traffic white), RAL 7035 (light grey)
- Lateral mounting points ensure that several enclosures can be mounted side by side

Technical data**BPM-O-...-EP****Electrical**

Type conforms to	IEC/EN 62208
Protection class	I (protective earth)
Degree of protection	IP55 (closed version with door/flanges) IP2XC (open door, the installation level is properly protected with EP covers)
Impact resistance	IK10
Rated operational voltage	415 V AC / 50 Hz
Rated current	Max. 630 A (depending on the type of incoming circuit breaker or the busbar system being used)

Earthing concept for the enclosure

- Main earthing By means of M8 welding bolts
Door earthing By means of M6 welding bolts

The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1.

For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35 °C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc.to IEC/TR 60890).

Mechanical

Enclosure	Excellent stability thanks to the welded construction
Material	Sheet steel, phosphated and polyester powder coated (structured) with corrosion protection
Color	Traffic white, RAL 9016 / light grey, RAL 7035
Door	With continuous foamed gasket, hinges on the inside, door opening angle 100°
Type	Flexible interior fittings with EP mounting units on system support frame vertical EPTV support frames are pre-installed on the left and right
Locking mechanism	Three-point locking mechanism with swing handle, lock cylinder optionally included in the accessories
Cable entry	Open, prepared for the insertion of one standard F3A flange for each 250 mm wide module
Ambient conditions	Indoor installation (wall mounting) Max. ambient temperature +40 °C Min. ambient temperature -5 °C
Halogen-free, RoHS	< 1%, yes
Accessories	Wall-fixing brackets for wall mounting, a 100 mm base if used as a floor-standing cabinet, lock cylinders as inserts for swing handles, various F3A flanges for cable entry, add-on connection kit
Delivered as	Complete cabinet, including two units each of EPTV and BPZ-TW, in preparation for the interior fittings with EP (for each 250 mm wide module, an additional pair of EPTV and BPZ-TW units are required)

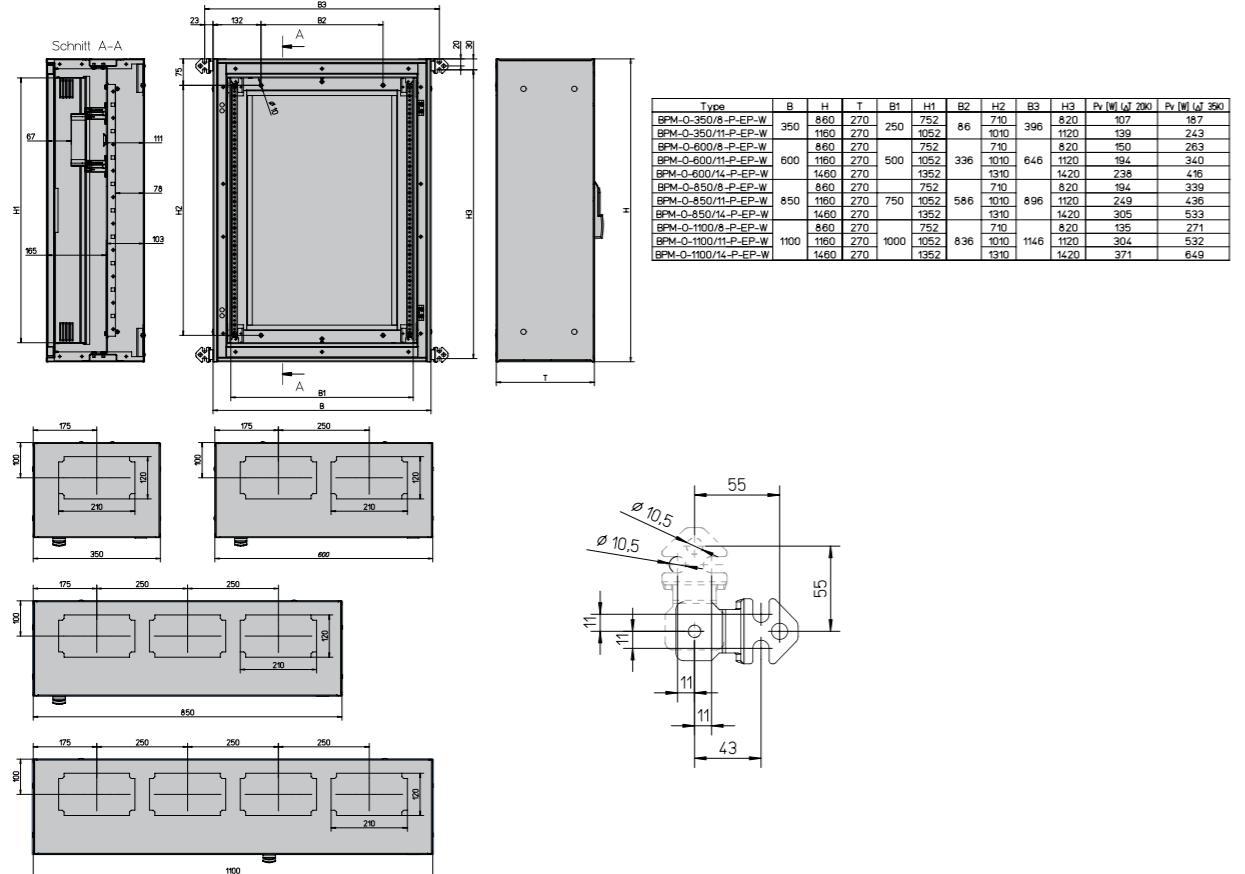
xEnergy Distribution Boards

Surface-mounted distribution board BPM-O-...-EP, IP55

xEnergy Basic

Dimensions (mm)

BPM-O-...-EP



Type	Overall dimensions			Internal dimensions (front plate)		Wall mounting (Enclosure directly)		Wall mounting (via fixing bracket set)		Pv [W] ($\Delta T 20K$)	Pv [W] ($\Delta T 35K$)
	Width B	Height H	Depth T	Width B1	Height H1	Width B2	Height H2	B3	H3		
BPM-O-350/8-P-EP(-W)	350	860	270	250	750	86	710	396	820	55	111
BPM-O-350/11-P-EP(-W)	350	1160	270	250	1050	86	1010	396	1120	52	104
BPM-O-600/8-P-EP(-W)	600	860	270	500	750	336	710	646	820	65	130
BPM-O-600/11-P-EP(-W)	600	1160	270	500	1050	336	1010	646	1120	76	152
BPM-O-600/14-P-EP(-W)	600	1460	270	500	1350	336	1310	646	1420	97	195
BPM-O-850/8-P-EP(-W)	850	860	270	750	750	586	710	896	820	87	175
BPM-O-850/11-P-EP(-W)	850	1160	270	750	1050	586	1010	896	1120	123	248
BPM-O-850/14-P-EP(-W)	850	1460	270	750	1350	586	1310	896	1420	141	283
BPM-O-1100/8-P-EP(-W)	1100	860	270	1000	750	836	710	1146	820	121	242
BPM-O-1100/11-P-EP(-W)	1100	1160	270	1000	1050	836	1010	1146	1120	158	317
BPM-O-1100/14-P-EP(-W)	1100	1460	270	1000	1350	836	1310	1146	1420	199	399
BPM-O-1350/11-P-EP-W	1350	1160	270	1250	1050	1086	1010	1396	1120	206	414
BPM-O-1350/14-P-EP-W	1350	1460	270	1250	1350	1086	1310	1396	1420	268	537

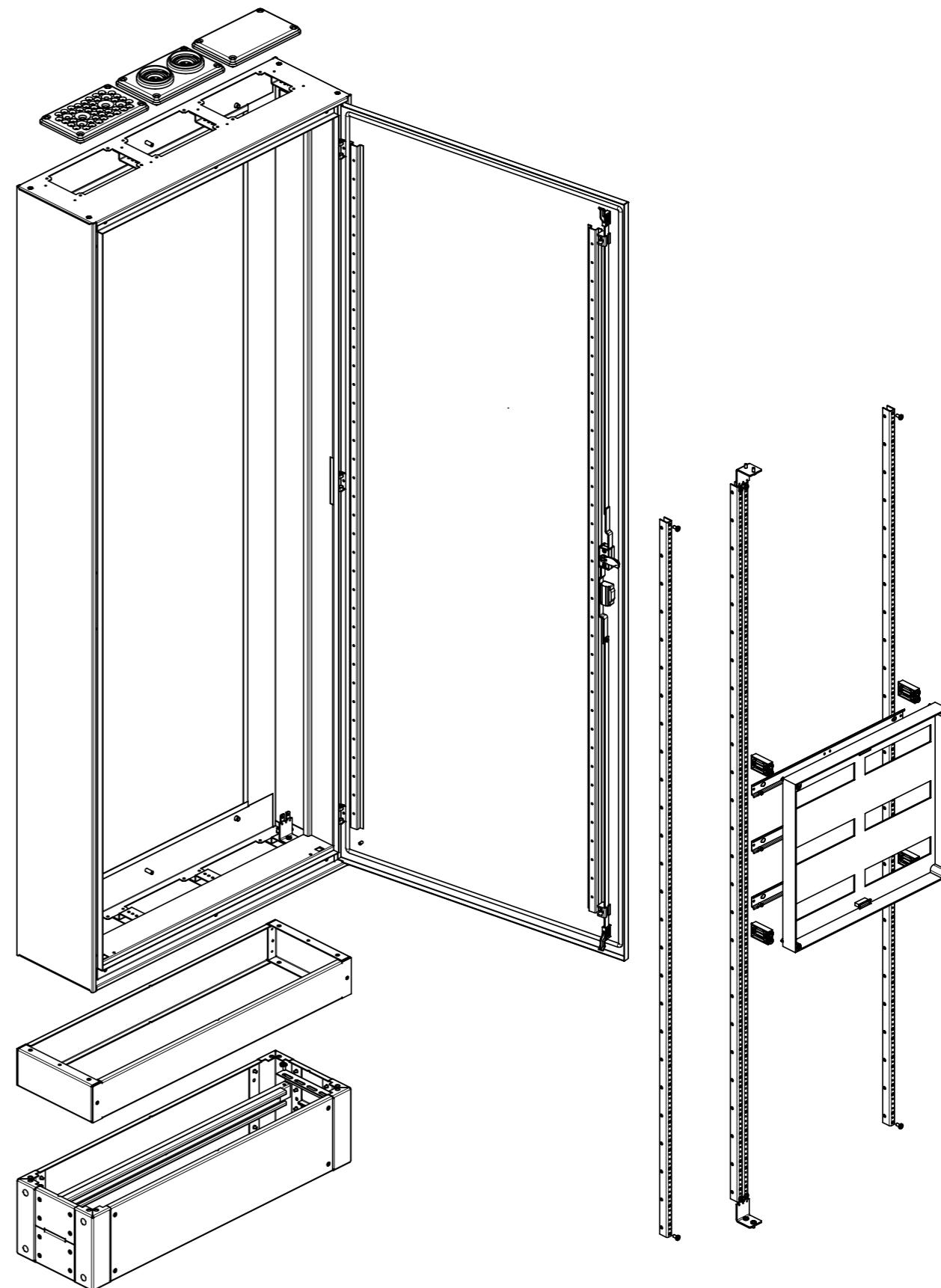
xEnergy Basic

xEnergy Distribution Boards

Floor-standing distribution board BPM-F-...-EP, IP55

System Overview

BPM-F-...-EP, IP55



xEnergy Distribution Boards

Floor-standing distribution board BPM-F-...-EP, IP55

xEnergy Basic
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Width [mm]	Height [mm]	EP frame size	Pre-assembled configuration intended for use with EP installation system / Prepared for F3A-flanges on top/bottom / Door with clip-down handle BPZ-SH-L / Standard depth of 250 mm	Pre-assembled configuration intended for use with EP / Installation system prepared for F3A-flanges on top/bottom / accomodate 250/500/750/1000 mm / Door with clip-down handle BPZ-SH-L extended depth of 400 mm / Dedicated as add-on connection cabinet	Support rail vertical with bracket to module widths / At least 2 pcs. of EPTV to realize two 250 mm compartments in width 600 mm
RAL 7035 grey		Incl. fully assembled EP support frame consists of EPTV1800/BPZ-TW and APH(05) to fit for module size EP23xx (250x450mm)	RAL 7035 grey	Empty	250 mm compartments in width 600 mm
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit
unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.

BPM-F-...-EP, IP55 - fully assembled

350 (12MU/row)	1910	250x1800	BPM-F-350/19/2-P-EP -	BPM-F-350/19/4-P-EP	EPTV1800 + BPZ-TW
			147399	193191	143849 + 143864
	2060	250x1950	BPM-F-350/20/2-P-EP -	-	EPTV1950A-BP + BPZ-TW
			142444	-	143850 + 143864
600 (24MU/row)	1910	500x1800	BPM-F-600/19/2-P-EP BPM-F-600/19/2-P-288-EP	BPM-F-600/19/4-P-EP	EPTV1800 + BPZ-TW
			147410	193650	143849 + 143864
	2060	500x1950	BPM-F-600/20/2-P-EP -	-	EPTV1950A-BP + BPZ-TW
			142445	-	143850 + 143864
850 (36MU/row)	1910	750x1800	BPM-F-850/19/2-P-EP BPM-F-850/19/2-P-432-EP	BPM-F-850/19/4-P-EP	EPTV1800 + BPZ-TW
			147411	193651	143849 + 143864
	2060	750x1950	BPM-F-850/20/2-P-EP -	-	EPTV1950A-BP + BPZ-TW
			142446	-	143850 + 143864
1000 (46MU/row)	1910	1000x1800	BPM-F-1100/19/2-P-EP BPM-F-1100/19/2-P-576-EP	BPM-F-1100/19/4-P-EP	EPTV1800 + BPZ-TW
			147412	193652	143849 + 143864
	2060	1000x1950	BPM-F-1100/20/2-P-EP -	-	EPTV1950A-BP + BPZ-TW
			142447	-	143850 + 143864
1350 (60MU/row)	1910	1250x1800	BPM-F-1350/19/2-P-EP -	BPM-F-1350/19/4-P-EP	EPTV1800 + BPZ-TW
			147413	193195	143849 + 143864
	2060	1250x1950	BPM-F-1350/20/2-P-EP -	-	EPTV1950A-BP + BPZ-TW
			142448	-	143850 + 143864

xEnergy Basic
Sheet 2/2

Sheet metal door as spare part / Clip-down handle BPZ-SH-L	Plinth 100 mm / Front cover	Plinth 200 mm / Side parts 1 pair / Front cover	Cable arrangement / Plinth 75 mm / Cable strain-relief rail	Cable arrangement / Plinth 100 mm / Cable strain-relief rail	Cable arrangement / Plinth 200 mm / Cable strain-relief rail
RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey

Cat. No. per unit					
unit = 1 pc.					

BPZ-DMS-350/19-P-EP	BPZ-SS-1/250-EP	BPZ-SS-2/250-EP	BPZ-KR3.50/400	BPZ-KR3.51/250	BPZ-KR3.51/400	BPZ-KR3.52/250	BPZ-KR3.52/400
147414	142454	142455	193196	142464	193201	142469	193205
BPZ-DMS-350/20-P-EP	BPZ-FS-350/1	BPZ-FS-350/2	BPZ-KFS-350	BPZ-KFS-350	BPZ-KFS-350	BPZ-KFS-350	BPZ-KFS-350
142449	142456	142460	142475	142475	142475	142475	142475
BPZ-DMS-600/19-P-EP	BPZ-SS-1/250-EP	BPZ-SS-2/250-EP	BPZ-KR60/400	BPZ-KR61/250	BPZ-KR61/400	BPZ-KR62/250	BPZ-KR62/400
147415	142454	142455	193197	142465	193220	142470	193225
BPZ-DMS-600/20-P-EP	BPZ-FS-600/1	BPZ-FS-600/2	BPZ-KFS-600	BPZ-KFS-600	BPZ-KFS-600	BPZ-KFS-600	BPZ-KFS-600
142450	293497	293499	116294	116294	116294	116294	116294
BPZ-DMS-850/19-P-EP	BPZ-SS-1/250-EP	BPZ-SS-2/250-EP	BPZ-KR8.50/400	BPZ-KR8.51/250	BPZ-KR8.51/400	BPZ-KR8.52/250	BPZ-KR8.52/400
147416	142454	142455	193198	142466	193202	142471	193206
BPZ-DMS-850/20-P-EP	BPZ-FS-850/1	BPZ-FS-850/2	BPZ-KFS-850	BPZ-KFS-850	BPZ-KFS-850	BPZ-KFS-850	BPZ-KFS-850
142451	142457	142461	142476	142476	142476	142476	142476
BPZ-DMS-1100/19-P-EP	BPZ-SS-1/250-EP	BPZ-SS-2/250-EP	BPZ-KR110/400	BPZ-KR111/250	BPZ-KR111/400	BPZ-KR112/250	BPZ-KR112/400
147417	142454	142455	193199	142467	193203	142472	193207
BPZ-DMS-1100/20-P-EP	BPZ-FS-1100/1	BPZ-FS-1100/2	BPZ-KFS-1100	BPZ-KFS-1100	BPZ-KFS-1100	BPZ-KFS-1100	BPZ-KFS-1100
142452	142458	142462	142477	142477	142477	142477	142477
BPZ-DMS-1350/19-P-EP	BPZ-SS-1/250-EP	BPZ-SS-2/250-EP	BPZ-KR130/400	BPZ-KR131/250	BPZ-KR131/400	BPZ-KR132/250	BPZ-KR132/400
147418	142454	142455	193200	142468	193204	142473	193208
BPZ-DMS-1350/20-P-EP	BPZ-FS-1350/1	BPZ-FS-1350/2	BPZ-KFS-1350	BPZ-KFS-1350	BPZ-KFS-1350	BPZ-KFS-1350	BPZ-KFS-1350
142453	142459	142463	142478	142478	142478	142478	142478

xEnergy Distribution Boards

Floor-standing distribution board BPM-F-...-EP, IP55

Description**BPM-F-...-EP**

- Complete cabinets, prepared and ready for the installation of EP mounting units
- Degree of protection IP55
- Impact resistance IK10
- Protection class I (protective earth)
- Cable entry prepared for F3A flange
- Quick and easy change of the hinge direction, door opening angle ~100°
- Swing handle closing mechanism
- Additional wall fixing to avoid tilting
- Enclosure made from powder-coated sheet steel, RAL 7035
- Add-on connection at depth 400 mm provided

Technical data**BPM-F-...-EP****Electrical**

Type conforms to	IEC/EN 62208
Protection class	I (protective earth)
Degree of protection	IP55 (closed version with door/flansche) IP2XC (open door, the installation level is properly protected with EP covers)
Impact resistance	IK10
Rated operational voltage	415 VAC / 50 Hz
Rated current	Max. 630 A (depending on the type of incoming circuit breaker or the busbar system being used)
Earthing concept for the enclosure	
Main earthing	By means of M8 welding bolts
Door earthing	By means of M6 welding bolts

The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1.

For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35° C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc.to IEC/TR 60890).

Mechanical

Enclosure	Excellent stability thanks to the welded construction
Material	Sheet steel 1.25 mm, phosphated and polyester powder coated (structured) with corrosion protection
Colour	Light grey RAL 7035
Door	With encircling foamed sealing, hinges on the inside, door opening angle ~100° Doors hinged either left or right, width 1000 / 1200 mm in double-wing design
Type	Flexible interior fittings with EP mounting units on system support frame vertical EPTV support frames are pre-installed on the left and right prepared EP-cabinets incl. support frame with fixed arrangement to accommodate standard modules EP23xx (250x450 mm)

Locking mechanism Three-point locking mechanism with swing handle and rod drive
(optional lock cylinder as accessory)

Cable entry Open, prepared for F3A flange on both sides (top+bottom)
lateral F3A cut-outs (top+bottom) for additional cable entry or cross-wiring at a depth of 400 mm

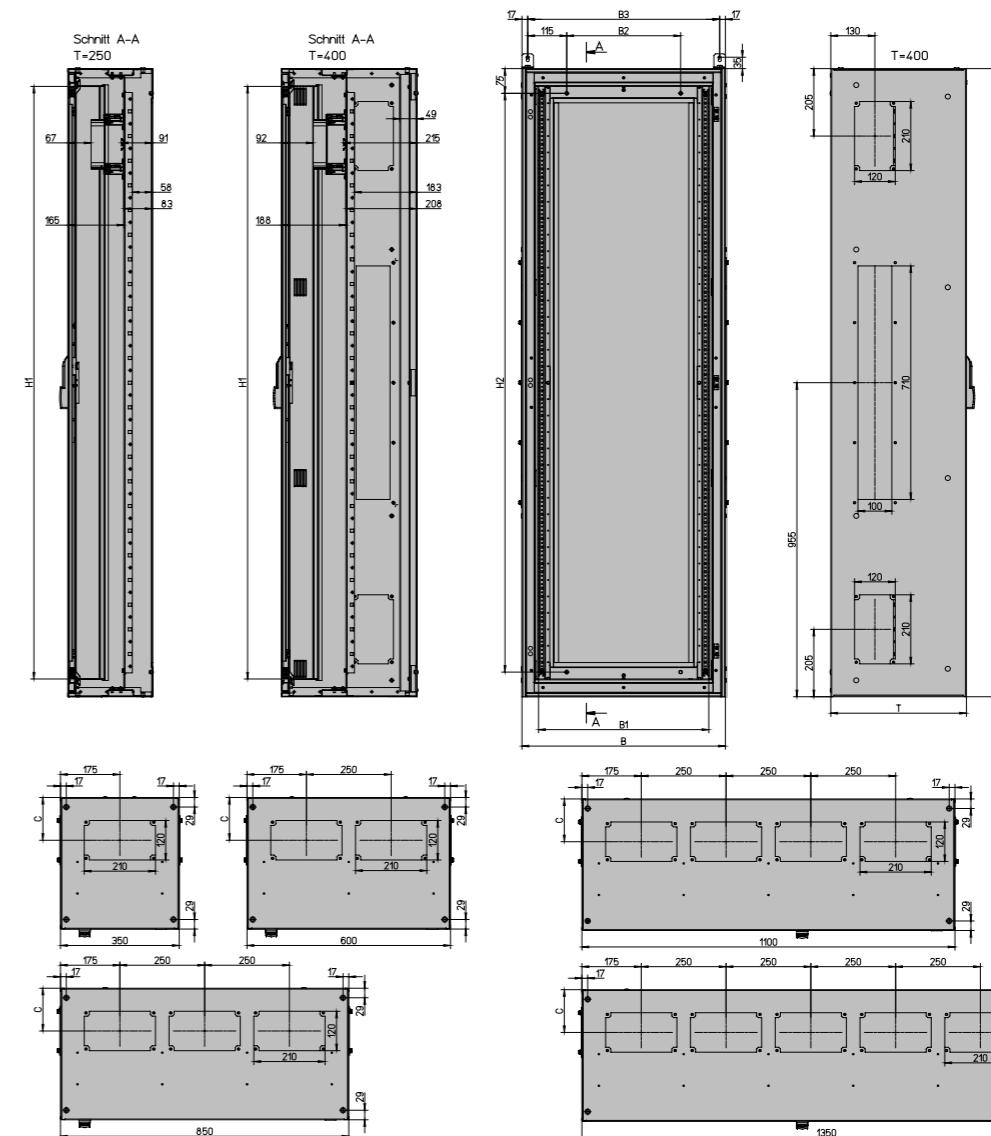
Busbar system Prepared for incorporating a continuous busbar system over several sections with depth 400 mm
Generous cut-outs left/right (closed with blind plates when delivered)

Ambient condition Indoor installation (Assembly with/without plinth with additional fixing to a wall, „stand-alone“ not recommended)
Max. ambient temperature +40° C
Min. ambient temperature -5° C

Halogen-free, RoHS < 1%, yes

Accessories Base options respectively cable arrangement plinths in height 100 / 200 mm, cabinet-based EP parts

Delivered as Complete cabinet, including two units each of EPTV and BPZ-TW, in preparation for the interior fittings with EP (for each 250 mm wide module, an additional pair of EPTV and BPZ-TW units are required)
Wall fixing brackets BPZ-WW (for depth 250 mm)

Dimensions (mm)**BPM-F-...-EP**

Type	Overall dimensions			Internal dimensions (front plate)		Wall mounting (Enclosure directly)		Wall mounting (additional)		Pv [W]	Pv [W]
	Width B	Height H	Depth T	Width B1	Height H1	Width B2	Height H2	Width B3	Height C	(ΔT 20K)	(ΔT 35K)
BPM-F-350/19/2-P-EP	350	1910	250	250	1800	86	1760	316	90	65	131
BPM-F-350/20/2-P-EP	350	2060	250	250	1950	86	1910	316	90	70	141
BPM-F-600/19/2-P-EP	600	1910	250	500	1800	336	1760	566	90	119	240
BPM-F-600/20/2-P-EP	600	2060	250	500	1950	336	1910	566	90	127	255
BPM-F-850/19/2-P-EP	850	1910	250	750	1800	586	1760	816	90	182	366
BPM-F-850/20/2-P-EP	850	2060	250	750	1950	586	1910	816	90	183	368
BPM-F-1100/19/2-P-EP	1100	1910	250	1000	1800	836	1760	1066	90	213	428
BPM-F-1100/20/2-P-EP	1100	2060	250	1000	1950	836	1910	1066	90	221	444
BPM-F-1350/19/2-P-EP	1350	1910	250	1250	1800	1086	1760	1316	90	254	509
BPM-F-1350/20/2-P-EP	1350	2060	250	1250	1950	1086	1910	1316	90	268	537
BPM-F-350/19/4-P-EP	350	1910	400	250	1800	86	1760	-	130	110	221
BPM-F-600/19/4-P-EP	600	1910	400	500	1800	336	1760	-	130	175	351
BPM-F-850/19/4-P-EP	850	1910	400	750	1800	586	1760	-	130	217	436
BPM-F-1100/19/4-P-EP	1100	1910	400	1000	1800	836	1760	-	130	268	538
BPM-F-1350/19/4-P-EP	1350	1910	400	1250	1800	1086	1760	-	130	310	622

193170_LDO, 293313_LDO, 501316_LDO



Distribution Boards

Distribution Boards

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System Overview

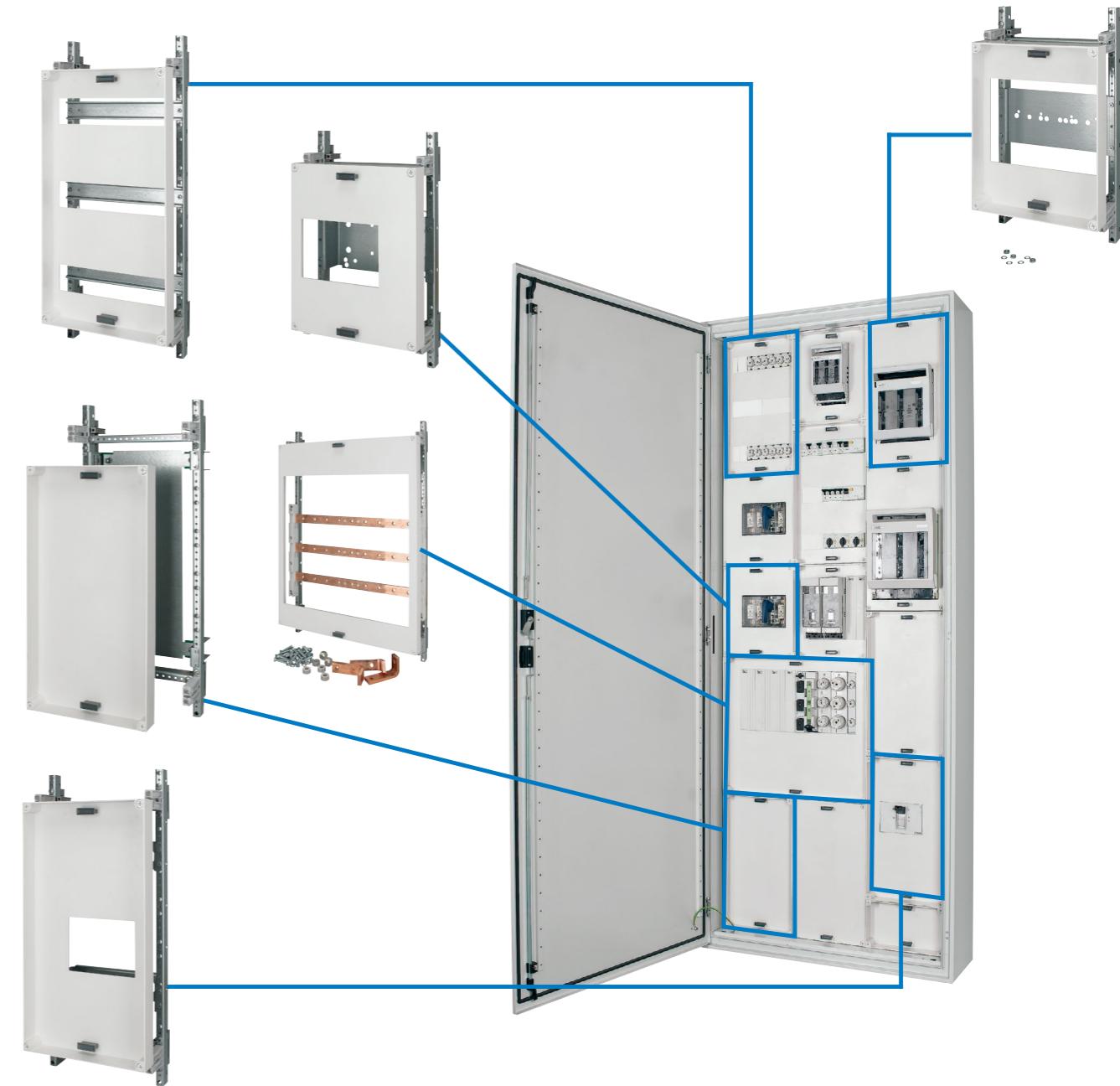
xEnergy Basic with standardized fitting-system EP

The EP system is an installation system with increased contact safety for the operator, because all modules/cover plates are made of plastic. The structure is rational and flexible.

A large number of standard mounting kits, especially for EATON protective devices and components enables efficient project planning for different applications. Usually there is no further mechanical processing necessary. The two major benefits are ease of use and time savings.

In addition, the installation space of the cabinets / wall enclosures is divided into uniform modules/sections, 150 mm in height and 250 mm in width, which can be combined with each other individually.

The distance between single rows for devices has also been standardized: It is 150 mm for the entire EP installation system. It gives more space for the installer to route the cables/wiring properly.



xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 250 mm

xEnergy Basic
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Width [mm]	Height [mm]	Installation on EP support frame Cover plate for individual use; intended to be used as hood or pan	Installation on EP support frame Cover plate for modular devices and related components; intended to be used as hood or pan	Installation on EP support frame Mounting kit for modular devices and related components; intended to be used as pan incl. DIN-rails 35x7.5 mm (1 rail per 150 mm section)
(12 MU / row) incl. fastener kit/handles (cover plate holders are not part of delivery)				EP2xRGT (transparent cover incl.)
RAL 9002 grey	RAL 9002 grey	RAL 9002 grey	RAL 9002 grey	
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	

EP installation system - standard modules

250	150		EP21AP 143867	EP21ORG 143884	EP21RG 143897
300			EP22AP 143868	EP22ORG 143885	EP22RG 143898
			EP22APT 193665		EP22RG 193663
450			EP23AP 143869	EP23ORG 143886	EP23RG 143899
			EP23APT 193666		EP23RG 193664
600			EP24AP 143870	EP24ORG 143887	EP24RG 143900
750			EP25AP 143871	EP25ORG 143888	EP25RG 143901

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EP installation system - standard modules / mounting kits, width 250 mm



Installation on EP support frame / Mounting kit for modular devices / terminal blocks without access / intended to be used as hood or pan incl. DIN-rails 35x7.5 mm / (1 rail per 150 mm section)	Installation on EP support frame / Mounting kit for individual use and general fixing of devices / intended to be used as hood or pan incl. mounting plate and depth-adjustable brackets	Installation on EP support frame / Cover plate for busbar-mounted fuse base sizes D02, D11 and D11L; intended to be used as pan; fitting unit is fed-in from the side 3-pole busbar system (60 mm) not incl.	Installation on EP support frame / Cover plate for busbar-mounted NH fuse switch-disconnector size NH000/NH00; intended to be used as pan; fitting unit is fed-in from the side 3-pole busbar system (60 mm) not incl.
EP2xRK2-V (vertical alignment) EP2xRKxA (depth-adjustable) RAL 9002 grey	EP2xMP(A) (non-perforated) EP2xMPL (micro-perforated) RAL 9002 grey	EP22GRC... (max. size 162 mm - vertical) EP23GRC... (max. size 324 mm - horizontal) RAL 9002 grey	EP22GRT... (3x NH000) RAL 9002 grey
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

EP21RK1 143910	EP21MP 143916	-	-
EP22RK2 143911	EP22MP 143917	EP22GRC162-0G 143943	EP22GRT3000R-0G 143947
EP22RK2-V 193667	EP22MPA 193659		
EP22RK2A 193669			
EP23RK2 143912	EP23MP 143918	EP23GRC324-0G 143945	-
EP23RK2-V 193668	EP23MPA 193660		
EP23RK3A 193670	EP23MPL 193657		

xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 250 mm

xEnergy
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Width [mm]

(12 MU / row)
inc. fastener kit/handles
(cover plate holders are
not part of delivery)

Height [mm]

Installation on EP support frame / Mounting kit for NH fuse switch-disconnectors, frame size NH00 - NH2, up to 400 A, incl. mounting plate (if needed) / R-variants are dedicated for busbar mounting, 3-pole busbar system (60mm)

not included / intended to be used as pan; EP22XNH001... (1x XNH00 3p/4p)

EP22XNH002... (2x XNH00 3p)

EP23XNH002... (2x XNH00 3p)

RAL 9002 grey

EP23XNH11... (1x XNH1 3p)

EP23XNH21... (1x XNH2 3p)

RAL 9002 grey

Installation on EP support frame / Mounting kit for NH In-line fuse switch-disconnector, frame size NH00-NH3, up to 630 A, intended to be used as pan; NH00: 3-pole busbar system (100 mm) NH1-3: 3-pole busbar system (185 mm)

EP24GTL... (4x NH00, Cu 30x5 mm)

EP25GTL... (1x NH1-3, Cu 2x30x10 mm)

RAL 9002 grey

| Cat. No.
per unit
unit = 1 pc. |
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EP installation system - standard modules

250 150



300	EP22XNH001-0G 184527	EP22XNH002-0G 184528	EP22XNH001-4-0G 184530	EP22XNH001R-0G 184537	EP22XNH002R-0G 184538	EP22XNH002/XRAIL-0G 193655
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450	EP23XNH002R-0G 187907	EP23XNH11-0G 184532	EP23XNH21-0G 184534	-
		EP23XNH11R-0G 184540	EP23XNH21R-0G 184541	

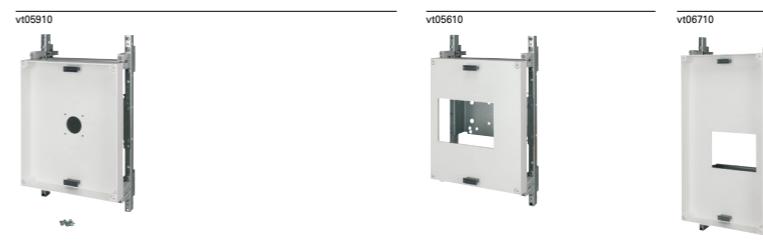
600	-	-	EP24GTL400-0G 143949	-
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750	-	-	EP25GTL1-0G 193673	-
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xEnergy
Basic
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xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 250 mm



Installation on EP support frame / Mounting kit for switch-disconnector, type Dumeco, 3-/4-pole, up to 400 A, / intended to be used as pan;	Installation on EP support frame Mounting kit for fuse switch-disconnector, type QSA, 3-/4-pole, up to 160 A, intended to be used as hood;	Installation on EP support frame Mounting kit for moulded case circuit breaker (MCCB), type NZM, 3-/4-pole, up to 630 A, incl. mounting plate
EP21GLD125... (1x DMM125)	EP22QLD160... (1x DMV160)	EP22NQM1... (1x NZM1-A160)
EP22GLD250... (1x DMVS160)	EP22QLD250... (1x DMV250/DMV400)	EP22NQM2... (1x NZM2-A250)
EP22QLD250... (1x DMV250/DMV400)	RAL 9002 grey	EP22NQM3... (1x NZM3-A630)
RAL 9002 grey	RAL 9002 grey	RAL 9002 grey

| Cat. No.
per unit
unit = 1 pc. |
--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------

EP21GLD125-0G 143967	-	-	-	-
EP22GLD160-0G 143968	EP22QSA063/125/160-0G 143972	EP22NQM1K-0G 195397	EP22NQM2K-0G 195399	-
EP22GLD250/400-0G 143969	EP22NQM1R-0G 143975	EP22NQM2R-0G 143976	-	
	EP22NQM12K-0G 195398	EP22NQM12R-0G 193656	EP22NQM2XR-0G EP-502511	

-	-	EP23NQM3K-0G 143977	EP23NQM3R-0G 143978	EP23NQM3XR-0G EP-502512
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xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 500 mm



Width [mm]	Height [mm]	Installation on EP support frame Cover plate for individual use; intended to be used as hood or pan (24 MU / row) incl. fastener kit/handles (cover plate holders are not part of delivery)	Installation on EP support frame Cover plate for modular devices and related components; intended to be used as hood or pan	Installation on EP support frame Mounting kit for modular devices and related components; intended to be used as pan incl. DIN-rails 35x7.5 mm (1 rail per 150 mm section)
RAL 9002 grey	RAL 9002 grey	RAL 9002 grey	RAL 9002 grey	RAL 9002 grey
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

EP installation system - standard modules

500	150		EP51AP 143872	EP51ORG 143889	EP51RG 143902
300			EP52AP 143873	EP52ORG 143890	EP52RG 143903
450			EP53AP 143874	EP53ORG 143891	EP53RG 143904
600			EP54AP 143875	EP54ORG 143892	EP54RG 143905
750			EP55AP 143876	EP55ORG 143893	EP55RG 143906

xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 500 mm



Installation on EP support frame / Mounting kit for modular devices / terminal blocks without access; intended to be used as hood or pan incl. DIN-rails 35x7.5 mm / (1 rail per 150 mm section) EP5xRKxA (depth-adjustable)	Installation on EP support frame / Mounting kit for individual use and general fixing of devices; intended to be used as hood or pan incl. mounting plate and depth-adjustable brackets EP5xMP(A) (non-perforated) EP5xMPL (micro-perforated)	Installation on EP support frame / Cover plate for busbar-mounted fuse base sizes D02, D11 and D11I; intended to be used as pan; fitting unit is fed-in from the side 3-pole busbar system (60 mm) not incl. EP5xGRC... (max. size 405 mm - vertical)	Installation on EP support frame / Cover plate for busbar-mounted NH fuse switch- disconnector size NH000/NH00; intended to be used as pan; fitting unit is fed-in from the side 3-pole busbar system (60 mm) not incl. EP52GRT... (6x NH000)
RAL 9002 grey	RAL 9002 grey	RAL 9002 grey	RAL 9002 grey
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

EP51RK1 143913	EP51MP 143919		
EP52RK2 143914	EP52MP 143920	EP52GRC405-0G 143944	EP52GRT6000R-0G 143948
EP52RK2A 193671	EP52MPA 193661		
	EP52MPL 193658		
EP53RK2 143915	EP53MP 143921	EP53GRC405-0G 143946	
EP53RK3A 193672	EP53MPA 193662		

xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 500 mm



Width Height [mm] [mm]	Installation on EP support frame Mounting kit for NH fuse switch-disconnectors, frame size NH00 - NH2, up to 630 A, incl. mounting plate (if needed) R-variants are dedicated for busbar mounting, 3-pole busbar system (60 mm) not included intended to be used as pan;
(24 MU / row) incl. fastener kit/handles (cover plate holders are not part of delivery)	EP52XNH004... (4x XNH00 3p) EP53XNH11... (1x XNH1 4p) EP53XNH22... (2x XNH2 3p) EP53XNH31... (1x XNH3 3p) EP52XNH003... (3x XNH00 4p) RAL 9002 grey
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

EP installation system - standard modules

500 150		EP52XNH004-0G 184529	-	-
		EP52XNH003-4-0G 184531		
		EP52XNH004R-0G 184539		
300		EP53XNH11-4-0G 184533	EP53XNH22-0G 184535	EP53XNH31-0G 184536
450		-	-	-
600		-	-	-
750		-	-	-

xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 500 mm



Installation on EP support frame / Mounting kit for NH In-line fuse switch-disconnector, frame size NH00-NH3, up to 630 A, intended to be used as pan; NH00: 3-pole busbar system (100 mm) NH1-3: 3-pole busbar system (185 mm) EP54GTL... (9x NH00, Cu 30x5 mm) EP55GTL4... (4x NH1-3, Cu 40x10-100x10 mm) EP55GTL3... (3x NH1-3, Cu 2x30x10 mm) RAL 9002 grey	Installation on EP support frame / Mounting kit for switch-disconnector, type Dumeco, 3-/4-pole, up to 1600 A; intended to be used as pan; EP53GLD630... (1x DMV630/DMV1000) EP53GLD1250... (1x DMV1250/DMV1600) EP53QSA... (1x QSA250/QSA400) EP53QSA... (1x QSA630) RAL 9002 grey	Installation on EP support frame / Mounting kit for fuse switch-disconnector, type QSA, 3-/4-pole, up to 630 A, intended to be used as hood; EP52QSA250/400-0G 143973	Installation on EP support frame / Mounting kit for Moulded Case Circuit Breaker (MCCB), type NZM, 3-/4-pole, up to 1600 A, incl. mounting plate / K-variants are dedicated for toggle operation, R-variants for rotary door handle / direct swing handle / intended to be used as hood or pan; EP55NZM4... (1x NZM4-A1600) RAL 9002 grey
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

-	EP52QSA250/400-0G 143973	-	-
	EP53GLD630/1000-0G 143970	EP53QSA630-0G 143974	
	EP53GLD1250/1600-0G 143971		
	EP54GTL900-0G 143950		
	EP55GTL4-0G 143955	EP55NZM4K-0G 143979	
	EP55GTL3-0G 193674	EP55NZM4R-0G 143980	
	EP25AP-GTL * 180442		
	*) width 250 mm / feeding unit for NH In-line fuse switch-disconnector module EP55GTL4-0G		

xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 750 mm

xEnergy Basic
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Width [mm]	Height [mm]	Installation on EP support frame Cover plate for individual use; intended to be used as hood or pan (36 MU / row) incl. fastener kit/handles (cover plate holders are not part of delivery)	Installation on EP support frame Cover plate for modular devices and related components; / intended to be used as hood or pan	Installation on EP support frame Mounting kit for modular devices and related components; intended to be used as pan incl. DIN-rails 35x7.5 mm (1 rail per 150 mm section)
		RAL 9002 grey	RAL 9002 grey	RAL 9002 grey
		Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

EP installation system - standard modules

750	150		EP71AP 143877
300			EP72AP 143878
			EP72ORG 143894
			EP72RG 143907
450			EP73AP 143879
			EP73ORG 143895
			EP73RG 143908
600			EP74AP 143880
			EP74ORG 143896
			EP74RG 143909
750			EP75AP 143881

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xEnergy Basic
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xEnergy Distribution Boards

EP installation system - standard modules / mounting kits, width 750 mm



Installation on EP support frame
Mounting kit for NH in-line fuse switch-disconnector, frame size NH00-NH3, up to 630 A,
intended to be used as pan; / NH00: 3-pole busbar system (100 mm) NH1-3: 3-pole busbar system (185mm)
EP74GTL... (14x NH00, Cu 30x10 mm)
EP75GTL7... (7x NH1-3, Cu 40x10-100x10 mm)
EP75GTL6... (6x NH1-3, Cu 2x30x10 mm)
RAL 9002 grey

Cat. No.
per unit
unit = 1 pc.

	EP74GTL1400-0G 143951
	EP75GTL7-0G 143956
	EP75GTL6-0G 193675
	EP25AP-GTL *) 180442

*) width 250 mm / feeding unit for NH in-line fuse switch-disconnector module EP75GTL7-0G

Set-up and mounting of a standard-section fitting-system, type EP**Type designation****Assembly group variants for:**

AP Cover plate, closed design

RG Devices for modular installation with DIN support rail

ORG Devices for modular installation without DIN support rail

RK Block terminals

MP Mounting plate

GRT NH fuse load disconnector NH000

GRT_R NH fuse load disconnector NH000 (busbar mounting)

XNH NH fuse load disconnector NH00-NH3

XNH_R NH fuse load disconnector NH00-NH3 (busbar mounting)

GRC Device, busbar-mounted distribution board system Type C

GRC_N Version D02 (neozed)

GRC_NV Version D02 (neozed), vertically arranged

GRC_V Version DII / DIII, vertically arranged

GRC_LD Version load disconnector for D-fuses

GRC_OG Version without device

GTL Device, NH **in-line fuse switch-disconnector**

GTL_OG Version without device

GLD Device, load disconnector Dumeco series

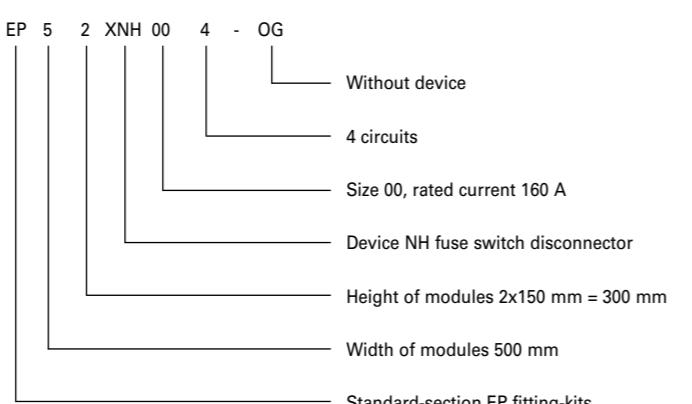
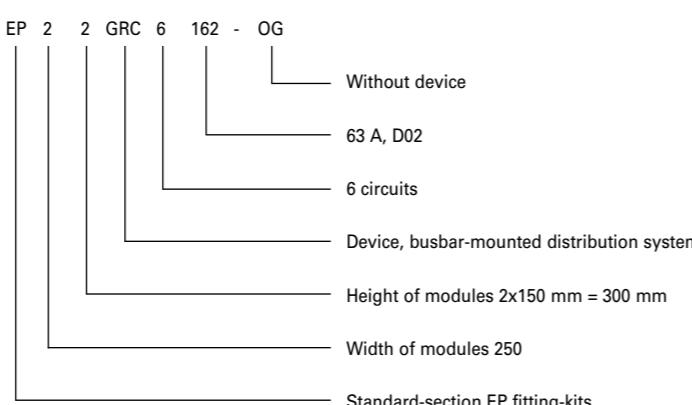
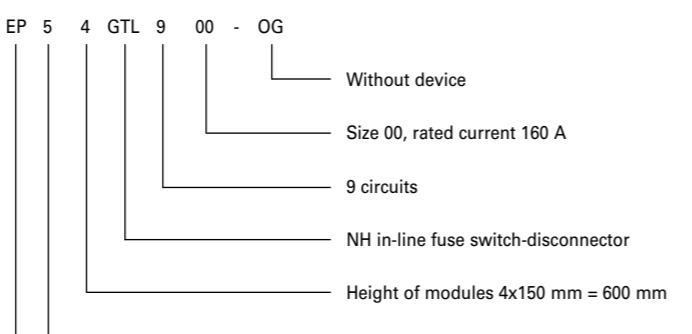
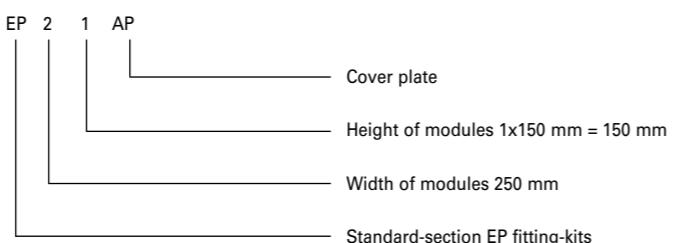
QSA Load disconnector for NH fuses type QSA

QSA_TK Version door coupling

GE Circuit breaker series G size E

Z Meter

WT Bracket rest for door wiring

Example of types:**Technical features, standard-section fitting-system type EP****Application**

As a standard-section fitting-system for use as a switchgear assembly in cabinet systems EWS/EWP, BPM-F, xE Main / Light

Standards and regulations

The system conforms to IEC/EN 61439-1/2

Construction for fixing standard-section fitting-kits

Basis for fixing the standard-section fitting-kits are the support profiles. Standard-section fitting-kits with electrical switchgear are mounted on these support profiles. This complete unit is protected by an electric shock protection cover plate.

Support elements for fixing standard-section fitting-kits

Basis of the internal framework in the type EWS/EWP, BPM-F, xE Main / Light system are the vertical (type EPTV) and horizontal (type EPHT) support profiles. These support profiles are fixed to each other by means of a "Support rail connector" which provides for a reliable and stable construction.

The support profile is designed with a 25 mm high fold, set up in a grid pattern of 250x150 mm according to DIN 43870, part 2, for accommodating mounting plates and support elements.

Material and coverings

Support profile: 25 mm high, 16 mm wide

2 mm sheet steel

Cover plate: Polystyrene, shock-resistant according to VDE 0304
low inflammability, self-extinguishing**Standard-section fitting-kits type-coding**

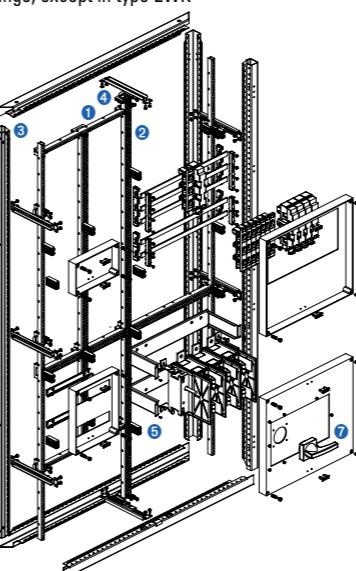
The following main groups are available:

- Modules for modular installation devices EP_RG
- Modules for block terminals EP_RK_
- Modules with mounting plate EP_MP
- NH fuse load disconnector modules EP_XNH_
- NH In-line fuse switch-disconnector modules EP_GTL_
- Modules with D-fuse elements EP_GRC_
- Modules with Dumeco load disconnector EP_GLD_
- Modules with load disconnectors using fuses type QSA EP_QSA_
- Modules for NZM compact circuit breakers EP_NZM

Product features of standard-section fitting-system, Type EP

Standard-section fitting-kits have the following technical characteristics:

- High stability thanks to the use of a 25 mm high U-fold profile support rail
- Dynamic resistance thanks to support rail connectors made of zinc diecast
- Flexible when it comes to the set-up of both plain and complex cabinet distribution boards
- Easy to install as there are only few system parts
- Pleasant design with calm, warm colours
- Rational planning and project development
- Standard-section fitting-kits can be used in the entire Eaton distribution board range, except in type EWK

**Colour**

- Cover plate: RAL 9002 - grey-white

- Handle: RAL 7024 - graphite-grey

Standard-section fitting module dimensions

Support profiles are set up in a grid pattern of 250x150 mm.

Width: 250 mm

Height: 150, 300, 450, 600, 750 mm

Width: 500 mm

Height: 150, 300, 450, 600, 750 mm

Width: 750 mm

Height: 150, 300, 450, 600, 750 mm

Delivery

The package contains all parts (cover plate and quick-fixing included) to be mounted on the support profile. Electric shock protection cover plates can be fixed one or the other way round and can therefore be used as a pan or as a hood.

Standard-section fitting-kits are delivered complete with handles and captive snap-in tool-type closures for quick fixing. Cover plate holders need to be ordered separately.

Device cover plates can be used one or the other way round to increase the installation depth. Manual opening is impossible. A sealing for each cover plate is available as an option.

Completely packed in a cardboard box ex-factory with clearly legible product designation.

System set-up of a standard-section fitting-system, Type EP**System support rails**

The standard delivery of a cabinet of the series BP(M)-0, BPM-F, xE Light prepared for a standard-section fitting-system is variable (see delivery details). A left and right side system support rail of type EPTV are the basis for the further inside equipment with vertical and horizontal support rails (Fig. 1).

Additional mounting of a horizontal support rail (type EPTH) and a vertical support rail (type EPTV) provide the framework for further inside equipment with standard-section fitting-kits of type EP (see Fig. 2).

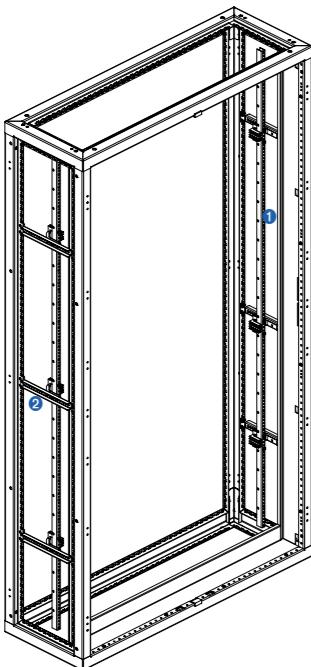


Fig. 1: Standard delivery of distribution board cabinet type xE Light with left and right mounted support profiles.
1) Vertical support profile. 2) Depth fitting kits.

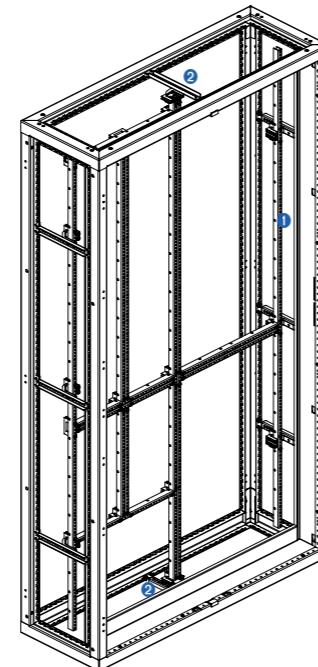


Fig. 2: Distribution board cabinet type xE Light with inside support framework thanks to support profiles for using and fixing standard-section fitting-kits type EP.
1) Vertical support profile. 2) Depth fitting kits.

System description of the standard-section EP fitting-system

Finish of floor-standing cabinet system - type BPM-F
Floor-standing cabinets BPM-F come equipped with a mounting kit (type BPZ-TW) on the left/right top and bottom, including a left and right support rail of type EPTV1950A-BP and EPTV1800 respectively.

Finish of floor-standing cabinet system - type xE Light

Cabinet system xE Light come equipped with the left/right mounted support rails EPTV1800-XVTL in combination with the depth fitting kits for stability purposes (XVTL-TE).

Depth fitting kits

For even more stability with xE Light you can also retrofit additional depth fitting kits (type XVTL-TE) on the framework.

All cabinets come equipped with an all-around electric shock protection and provide the required protection of people in the combination of assembly groups and cabinet housing.

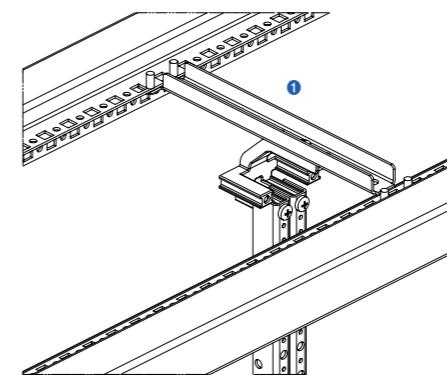


Fig. 1: Depth fitting kit type XVTL-TE - installation at the top
1) Depth fitting kit

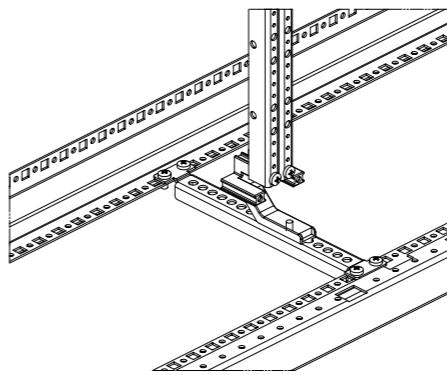


Fig. 2: Depth fitting kit type XVTL-TE - installation at the bottom

You need to use the support rail connector for connecting horizontal and vertical support rails with each other. The zinc diecast component is extremely stable and provides a high level of dynamic resistance to the connection.

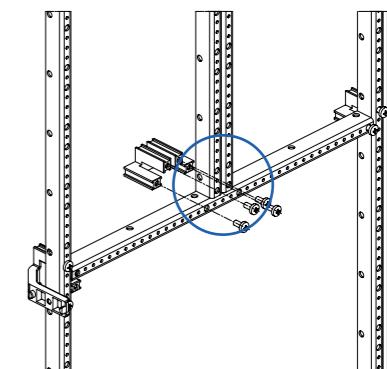


Fig. 3: Support rail connector (type EPTV) - for horizontal installation

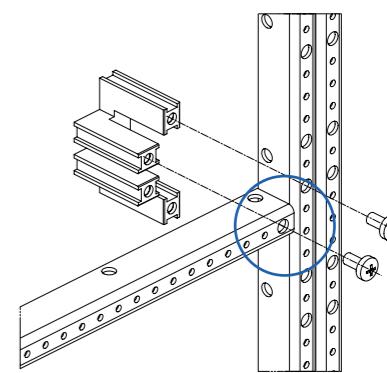


Fig. 4: Support rail connector (type EPTV) - for vertical installation

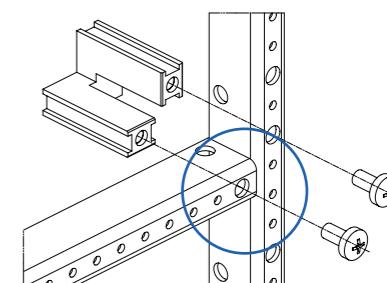


Fig. 5: Support rail connector half (type EPTV05) - for vertical installation

Support rail connector (Fig. 3 and 4)

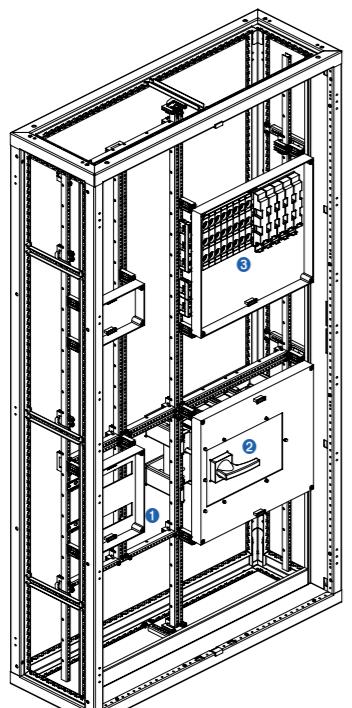


Fig. 1: Cabinet distribution board, partly equipped with standard-section EP fitting-kits
1) Fitting module type EP for DIN-modular components
2) Fitting module type EP for Dumeco load disconnector
3) Fitting module type EP for busbar-mounting fuse

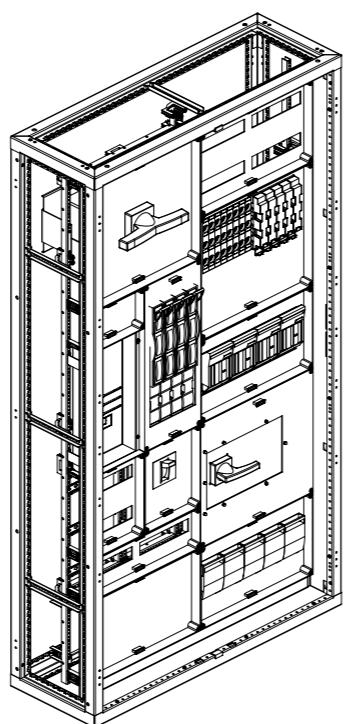


Fig. 2: Cabinet distribution board, fully equipped with the fitting module type EP

System description of the standard-section fitting-system, type EP

On the inner side of the system support framework you can fix different electrical equipment using different mounting elements such as DIN profile support rails, device carrier plates, meter plates, busbar system etc., depending on the project design and on the required equipment (see Fig. 1).

Thanks to the predetermined fixing grid of $v_h = 75$ mm according to DIN 43660, the vertical support rails (type EPTV) allow for a variable set-up of the electrical equipment and the corresponding mounting elements.

For this purpose and with the aid of the corresponding building instructions, the mounting elements are directly mounted on these vertical system support rails (type EPTV).

The cover plate holder is designed as a double holder (type APH or APHL) and is screwed onto the horizontal and vertical system support rails in a grid pattern of 250x150 mm. In the respective cabinet corners you have to use halfs of the cover plate holders (type APH05 or APHL05).

The electric shock protection cover can simply be fixed using a tool-type closure as a quick fastener through a 90° turn on the cover plate holder.

The complete cabinet system equipped with assembly groups is interconnected with the electrical shock protection running all around the cabinet, it is therefore fully protected against electric shock and offers best operator protection (Fig. 2).

Set-up and mounting of a standard-section fitting-system, type EP

Electric shock protection cover plate

Electric shock protection cover plates can be inverted, so they provide for a different mounting level regarding depth:

- as a pan (Fig. 1) 40 mm top edge system support rail 55 mm
- or mounted as a hood (Fig. 2) 93.5 mm top edge system support rail

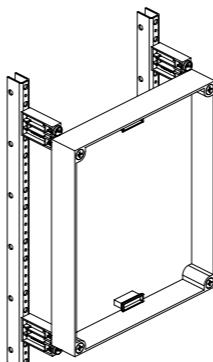


Fig. 1: Electric shock protection used as a pan

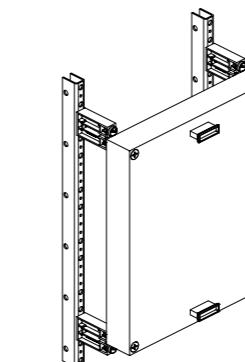


Fig. 2: Electric shock protection used as a hood

Set-up bracket for DIN support rails (Fig. 4 and 5)

If you use set-up brackets (type EPAW_TS) you can increase the level of the device support rail by 40 mm. In this case the electric shock protection cover plate is mounted as a hood, so the clearance between the device support rail and the device cover is 45 mm again.

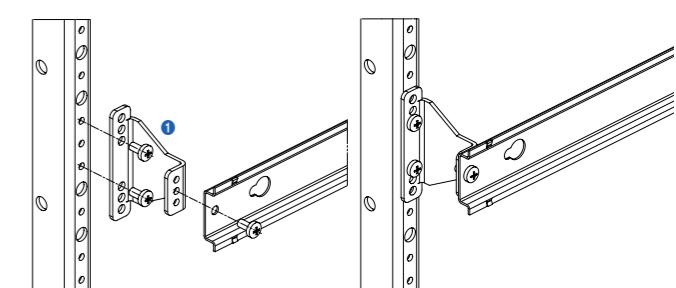


Fig. 4/5: Principle of DIN support rails combined with a set-up bracket and cover plate as a hood
1) Set-up bracket

Drop-down shackle (Fig. 6 and 7)

Thanks to the drop-down shackle (type EPAB-TSMP) the mounting level of the device support rail (and of the mounting plates) can be reduced to 60 mm in steps of 12 mm from the top edge of the system mounting frame (system support rail).

In this case the electric shock protection cover plate is used as a hood so as to increase the fitting depth.

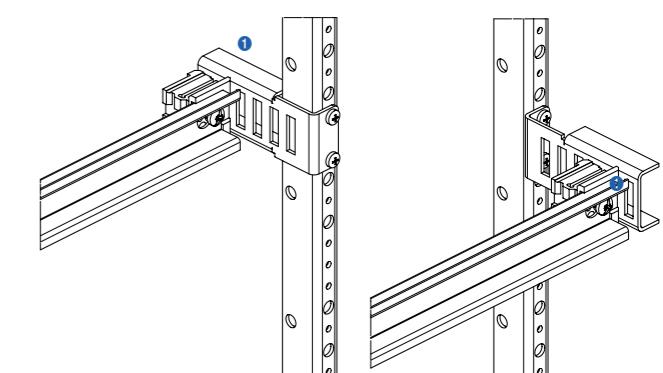


Fig. 6/7: DIN support rails can be brought down in steps of 12 mm
1) Set of drop-down shackles

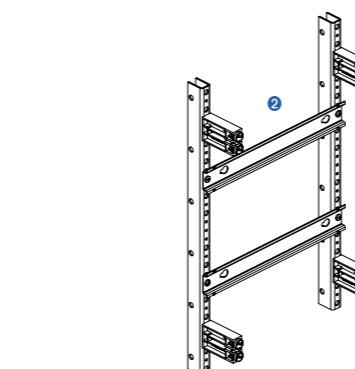


Fig. 3: Fixing of DIN support rails when using the electric shock protection cover plate as a pan
1) Cover plate holder 2) DIN support rail

Mounting plate with drop-down shackle (Fig. 8)
Used for fitting the devices through screw-fastening, such as switchgear, protective assemblies, regulators, converters and other devices. Where depth-adjustable drop-down shackles are used together with standard mounting plates, it is no problem to install switchgear, contactors or other depth-installed devices in steps of 12 mm down to 67.5 mm from the top edge of the system support rail.

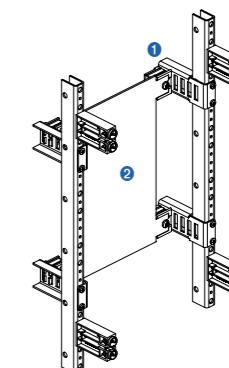


Fig. 8: Mounting plate with a set of drop-down shackles
1) Set of drop-down shackles 2) Mounting plate

Set-up and mounting of a standard-section fitting-system, type EP**Selection of the required low-voltage cabinet system**

For selecting the right cabinet system the following aspects need to be considered:

- System assembly group and device inserts?
- Electric shock protection covers required?
- How can they be combined in the switchboard cabinet to be selected?

You also need to take into account:

1. Total volume of the built-in components and device inserts to be used
2. Rated current of the busbar system in case you plan to install one
3. Type of placement - either as a
 - Wall-mounted cabinet distribution board or as a
 - Floor-standing cabinet distribution board, stand-alone

Depending on the above criteria and using the selection tables and the overview of predefined variants, you can find out and determine the suitable solution for the set-up or combination of the device fitting kits and the appropriate electric shock protection covers for the switchboard cabinet system.

Once this has been done, you will know the required number and the arrangement of the support rails; the same applies to the size of the individual switchgear system assembly groups and their device covers.

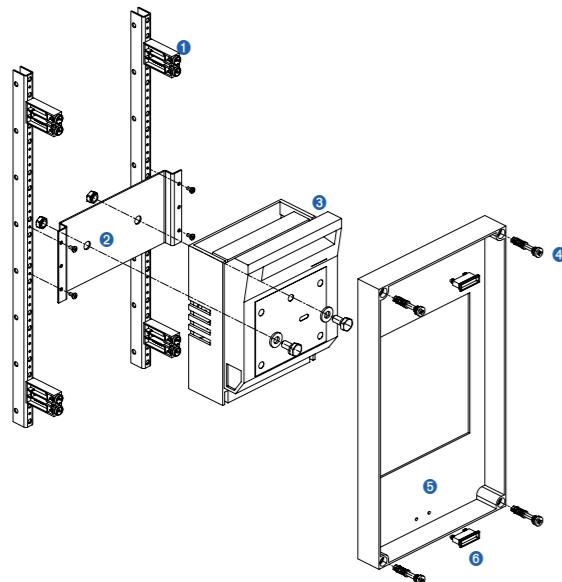


Fig. 1: Standard-section fitting-kits type EP with NH in-line fuse switch-disconnector mounted on a device carrier plate

- 1) Cover plate holder
- 2) Prepared device carrier plate
- 3) NH fuse load disconnector
- 4) Quick fastener
- 5) Cover plate
- 6) Handle

Set-up and mounting of the fusebox on the busbar system

With fuseboxes in horizontal and vertical design, the busbar supports are fixed directly and immediately or between two vertical system support rails (type EPTV). The 20x5 mm copper current rails are positioned from the front and fixed on the upper part of the support.

The 3-pole busbar-mounting fuse bases are placed on these copper current rails from the front and locked in place with a fastening screw.

The individual strip covers can only be removed after the central electric shock protection cover has been taken off.

The electric shock protection and switchgear covers comprise the captive snap-on tool-type quick closures for quick fastening.

"Manual opening" is impossible.

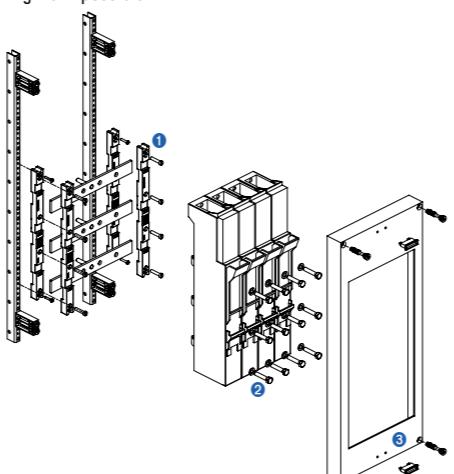


Fig. 2: Standard-section fitting-kits with NH in-line fuse switch-disconnector, 3 poles, vertically mounted on the busbar support. Center-to-center distance between the phases is 100 mm, with Cu busbar system 30x5 or 30x10 mm

- 1) Special rail support
- 2) Terminals
- 3) Cover plate

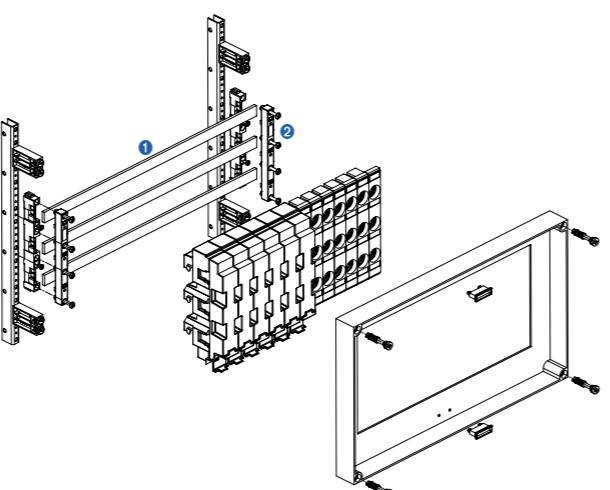


Fig. 3: Busbar-mounted D fuse base, 3 poles, mounted on busbar support. Center-to-center distance between the phases is 60 mm, with Cu busbar system 20x5 or 30x10 mm

- 1) Busbar system

- 2) Rail support

Material: Polystyrene, shock-resistant, self-extinguishing

Colour: RAL9002 (grey-white)

The snap-on handles as a mounting aid are also included in the scope of delivery.

Self-adhesive transparent pockets for frontal placement of labelling strips at a later point in time can be provided as an option.

**Distribution Boards****Distribution Boards**

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xEnergy Distribution Boards

EP installation system - general accessories



Meter Carrier Plate

- To accomodate intra-company meter equipment for AC and three-phase current
- Installation depth for meters - max. 175 mm

Width x Height (mm)	Description	Type Designation	Cat. No.	Units per package
250 x 450	single	EP23Z1-ZBR	193690	1
250 x 750	double	EP25Z2-ZBR	193691	1



Mounting Plate

- Can be used in connection with universal drop-down brackets
- Material: Sheet steel 2.0 mm, galvanized
- Incorporation of energy meter modules is possible as of EPMP51
- Incorporation of terminal boxes is possible

204 x 115	EPMP21	143987	1
204 x 240	EPMP22	143988	1
204 x 240	EPMP22	143988	1
454 x 115	EPMP51	143990	1
454 x 240	EPMP52	143991	1
454 x 390	EPMP53	143992	1

Height (mm)	Cabinet Type	Type Designation	Cat. No.	Units per package
-------------	--------------	------------------	----------	-------------------

Vertical Profile, Square Hole Pattern 9.5 x 9.5 mm included

- Left and right vertical profile to accommodate EP modules
- Also suitable for interior set-up, if the entire section height is used or if subdivisions are incorporated, you need to use EPTV....
- For cabinet types BPM-F, xE Light



1765	BPM-F, xE Light	EPTV1800A-XVTL	143797	1
1915	BPM-F	EPTV1950A-BP	143850	1



Support Rail Vertical, Square Hole Pattern 9.5 x 9.5 mm included

- For vertical interior set-up in cabinet types BP-O, BPM-O, BPM-F, xE Light
- To accommodate EP modules

65	EPTV65	143837	1
115	EPTV150	143838	1
265	EPTV300	143839	1
415	EPTV450	143840	1
565	EPTV600	143841	1
715	EPTV750	143842	1
865	EPTV900	143843	1
1015	EPTV1050	143844	1
1165	EPTV1200	143845	1
1315	EPTV1350	143846	1
1465	EPTV1500	143847	1
1615	EPTV1650	143848	1
1765	EPTV1800	143849	1

xEnergy Basic

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xEnergy Distribution Boards

EP installation system - general accessories

Depth (mm)	Cabinet Type	Type Designation	Cat. No.	Units per package
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Support Rail Horizontal, Square Hole Pattern 9.5 x 9.5 mm included

- For horizontal interior set-up in cabinet types BP(M)-O, BPM-F, xE Main / Light
- With holes for mounting the devices, mounting rails and assembly groups

215	EPTH250	143851	1
465	EPTH500	143852	1
715	EPTH750	143853	1
965	EPTH1000	143854	1
1215	EPTH1250	143855	1



Support Rail Horizontal, Double Version

- For horizontal interior set-up in cabinet types BP(M)-O, BPM-F, xE Main / Light
- With holes for mounting the devices, mounting rails and assembly groups

465	EPTH500D	143856	1
715	EPTH750D	143857	1
965	EPTH1000D	143858	1
965	EPTH1000D	143858	1

Depth Support Rail

- For mounting cabinet connectors or fitting bracket types WEQV, WMPO, XVTL-EW

300	xE Light	XVTL-TT300	143825	1
400	xE Light	XVTL-TT400	143826	1
600	xE Main / Light	XVTL-TT600	143828	1
800	xE Main / Light	XVTL-TT800	143829	1



Depth Fitting Kit

- For fixing the vertical and horizontal support rail types EPTV and EPTH
- Fastening material included
- 1 package = 2 units
- Depth support rail and cabinet connector

300	xE Light	XVTL-TW300	500613	1
400	xE Light	XVTL-TW400	500614	1
600	xE Main / Light	XVTL-TW600	500615	1
800	xE Main / Light	XVTL-TW800	501299	1

xEnergy Distribution Boards

EP installation system - general accessories

Depth (mm)	Cabinet Type	Type Designation	Cat. No.	Units per package
Cabinet Connector				
vt08410				
	xE Main / Light	XVTL-SV	143834	1
	xE Main / Light width 425 mm	XVTL-SV425	143836	1
in combination with XVTL-TW	xE Main / Light	XVTL-AW	500617	1
in combination with XVTL-TW	xE Main / Light width 425 mm	XVTL-AW425	500616	1



vt05018, vt05118	BPM-F	BPZ-TW	143864	1
250/400	BPM-F	BPZ-TW	143864	1
250/270	BP-O/BPM-O			

Support Rail Bracket

- For mounting the vertical support rail type EPTV
- Fastening material included
- 1 package = 2 units

vt08710	250/400	BPM-F	BPZ-TW	143864	1
	250/270	BP-O/BPM-O			

Add-on connection kit

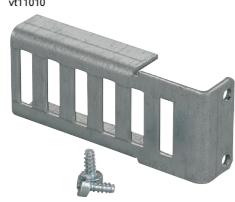
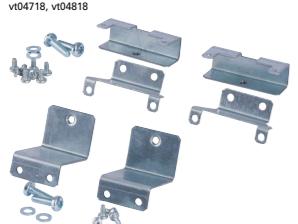
- For a proper arrangement (side-by-side) of two or more cabinets taking into account of degree of protection
- Screws, washers and sealing tape included
- 1 set is needed for each connection

vt05018, vt05118	400	BPM-F	BPZ-AC55-F	193653	1
	250/270	BP-O/BPM-O	BPZ-AC55-O	193654	1

xEnergy Basic

xEnergy Distribution Boards

EP installation system - general accessories

Description	Type Designation	Cat. No.	Units per package
Drop-down Shackle for Support Rails and Mounting Plates			
<ul style="list-style-type: none"> For reducing the mounting level in steps of 12 mm down to a max. of 60 mm from the top edge of the system support rail Fastening material included 1 package = 2 units 			
	EPAB-TSMP	143985	1
Fixing bracket for distribution busbar BPZ-KB-xx/250			
<ul style="list-style-type: none"> Horizontal arrangement of the distribution busbar, supply from top/bottom via connection lugs Especially designed to fit between two DIN-rails of 150 mm distance 1 package = 2 units 			
	EPBR-KB12 EPBR-KB24	193688 193689	1 1
Fitting Bracket			
<ul style="list-style-type: none"> For fixing support elements such as EPTV support rails or horizontal type EPTH support rails As double and EPTH type 			
	XVTL-EW	143995	10
Cover Plate Holder, as Double Tower, Standard Version			
<ul style="list-style-type: none"> Double tower version with fixing screw For fixing the electric shock protection cover plate 			
	APH	143981	20
Cover Plate Holder, as Double Tower, High Version			
<ul style="list-style-type: none"> Double tower version with fixing screw 7.5 mm higher allowing to use the 15 mm high support rails (type EPTS15) For fixing the electric shock protection cover plate 			
	APHL	143982	10

xEnergy Basic

xEnergy Basic

Description	Height (mm)	Type Designation	Cat. No.	Units per package	
Cover Plate Holder, Half, Standard Version					
<ul style="list-style-type: none"> Single tower version with fixing screw For fixing the electric shock protection cover plate For use in the 4 cabinet corners 					
	APH05		143983	20	
Cover Plate Holder, Half, High Version					
<ul style="list-style-type: none"> Single tower version with fixing screw 7.5 mm higher to allow using the 15 mm high support rails (type EPTS15) For fixing the electric shock protection cover plate For use in the 4 cabinet corners 					
	APHL05		143984	10	
Insulation Piece					
<ul style="list-style-type: none"> For insulated mounting of DIN support rails on the support framework Screws included 1 package = 2 units 					
	UI-TS		144022	1	
Raising Bracket for Support Rail					
<ul style="list-style-type: none"> For increasing the mounting level by 40 mm from the top edge of the system support rail type EPTH Fastening material included 1 package = 2 units 					
	For DIN Support Rail	35 x 7.5 mm 35 x 15 mm	EPAW-TS EPAW-TS15	143986 172759	1 1
Spacer Pins					
<ul style="list-style-type: none"> For the set-up of DIN support rails and cable strain relief rails on a higher level Hexagonal shape, thread M4 					
	35 55	AB30 AB60	144023 144024	1 1	

xEnergy Distribution Boards

EP installation system - general accessories

xEnergy Distribution Boards

EP installation system - general accessories

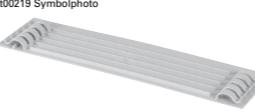
Description	Length (mm)	Type Designation	Cat. No.	Units per package
Tool-type Quick-acting Closure Handle				
<ul style="list-style-type: none"> • Set of 4 units of tool-type quick-acting closures and 2 handles 				
vt10010		APZB	144025	1
				
Tool-type Quick-acting Closure with Sealing Cap				
<ul style="list-style-type: none"> • For diagonal sealing of a cover plate • 1 package = 2 units 				
vt10110		APWSVP	144026	1
				
M4 Insertable Anchor				
<ul style="list-style-type: none"> • M4 x 16 mm screw type EPLHS-M4X16 is included • 1 package = 4 units 				
vt10310		EPGE4	144027	1
				
Support Rail 35 x 7.5 mm, Square Hole Pattern 9.5 x 9.5 mm included				
<ul style="list-style-type: none"> • Similar to DIN EN 60715, used as a support rail for block terminals and installation built-in devices for snap-on fixing 				
vt07310	250	EPTS7-0250	143996	1
	500	EPTS7-0500	143997	1
	750	EPTS7-0750	143998	1
	1000	EPTS7-1000	143999	1
	1250	EPTS7-1250	144000	1
Support Rail 35 x 15 mm, Square Hole Pattern 9.5 x 9.5 mm included				
<ul style="list-style-type: none"> • Similar to DIN EN 60715, used as a support rail for block terminals and installation built-in devices for snap-on fixing 				
vt07310	250	EPTS15-0250	144001	1
	500	EPTS15-0500	144002	1
	750	EPTS15-0750	144003	1
	1000	EPTS15-1000	144004	1
	1250	EPTS15-1250	144005	1
Cable Interconnect Shackle				
<ul style="list-style-type: none"> • For flexible and orderly guidance of cables and conductors 				
vt09310	35 x 75	UKBUE35.75	144013	50
	65 x 185	UKBUE65.185	144014	20

xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

EP installation system - general accessories

Description	Width x Depth (mm)	Type Designation	Cat. No.	Units per package	
Cable routing shackle					
<ul style="list-style-type: none"> • Used for square hole pattern 9.5 x 9.5 mm 					
vt09410, vt04918	35 x 75	EPCL095-75x75	193687	10	
					
Description	Length (mm)	Type Designation	Cat. No.	Units per package	
Blanking Strips					
<ul style="list-style-type: none"> • To cover 45 mm non-equipped space units • Grid pattern 9 mm 					
wa_vt07313, vt113414	closed, white	NBP-1000-W	275413	1	
	gray, rough-ribbed, 12 MU	BS-12MB-GY	178979	10/100	
For use with	Width x Height [mm]	Type Designation	Cat. No.	Units per package	
Blanking Strips, 60 mm system					
<ul style="list-style-type: none"> • To blank off unused spaces • RAL 7035 • Detachable in increments of 9 mm 					
vt00219	EPxxGRC... EPxxGRT... EPxxXNH00...	56 x 198	BS-S60-CI/EP	194590	10
					
Blanking Strips, 100 mm system					
<ul style="list-style-type: none"> • Material: PVC 2.5 mm • RAL 7035 					
vt00219 Symbolphoto	EPxxGTLx00-0G EPxxGTLx00-0G	50 x 429 100 x 429	EPCOVER50-P100-JM EPCOVER100-P100-JM	155453 155454	1 1
					
Blanking Strips, 185 mm system					
<ul style="list-style-type: none"> • Material: PVC 2.5 mm • RAL 7035 					
vt00219 Symbolphoto	EPxxGTLx-0G EPxxGTLx-0G	50 x 666 100 x 666	EPCOVER50-P185-JM EPCOVER100-P185-JM	155457 155458	1 1
					

xEnergy Distribution Boards

EP installation system - general accessories

Depth (mm)	Cabinet Type	Depth x Height (mm) Cover strip	Type Designation	Cat. No.	Units per package
Labelling Strips in Transparent Pocket					
<ul style="list-style-type: none"> • Labelling strips can be placed retro-actively • Self-adhesive • 1 package = 10 units 					
wa_vt14413		1000	LAB-BAR_1000	107911	1
			LAB_TAPE_A4_BLANK	107952	1



Partition, Vertical and Horizontal

- Material: Plastic

250	BP-O/BPM-F	135 x 1920	BPZ-SCH202	144015	1
270/300	BPM-O/xE Light	150 x 1850	XVTL-SCH203	144016	1
400	BPM-F/xE Light	250 x 1850	XVTL-SCH204	144017	1
600	xE Light	450 x 1850	XVTL-SCH206	144019	1



Busbar Support 60 mm up to 630 A

- Busbar system for mounting behind a cover as of a height of 300 mm
- Center-to-center distance between phases 60 mm
- Expandable to 4 and 5 poles
- Rated conditional short-circuit current up to 85 kA Ipk / 40,5 kA lcw with Cu 1 x 30 x 10 mm, 630 A Details see technical part.

250 - 630	12x5 - 30x10	SL63031	148582	1
315 - 630	20x5 - 30x10	SL63032	148583	1
630	30x10	SL63033	148584	1



Busbar Support PE/N

- Busbar Support 1 pole , for mounting behind a cover of a height of 150 mm
- Expandable to 2 poles
- Busbar Support 2 poles , for mounting behind a cover of a height of 300 mm

250 - 630	12x5 - 30x10	SLPEN63011	148585	1
315 - 630	20x5 - 30x10	SLPEN63012	148586	1
630	30x10	SLPEN63013	148587	1



PE/N Support Offset

- For easier connecting of incoming and outgoing cables and conductors

	SLPEN630U	148588	1
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xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

EP installation system - general accessories

Depth (mm)	Cabinet Type	Depth x Height (mm) Cover strip	Type Designation	Cat. No.	Units per package
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Labelling Strips in Transparent Pocket

- Labelling strips can be placed retro-actively
- Self-adhesive
- 1 package = 10 units

wa_vt14413	1000	LAB-BAR_1000	107911	1
		LAB_TAPE_A4_BLANK	107952	1

xEnergy Basic

End Cover of Busbar

- For side covering of busbar 12x5 to 30x10 (250 - 630 A)

vt09810	3 poles	3 poles	SL630EA	148589	1
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Description	Dimension (mm)	Type Designation	Cat. No.	Units per package
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Assembly Group for Door Wiring

- Outgoing PG21 with plastic tube 450 mm long
- Mounting material included
- Without cover plate

vt11510	Tube connector (straight) incl. counter nut	SEM21	143964	1
vt11210	Tube connector (angled) incl. counter nut	SEM/W21	143962	1
SEM21	Corrugated tube (cable protection)	NW21	143963	1
VT07910	Tube holder	UKH	143961	1
NW21	Mounting kit	MSWT	143966	1

MSWT



Replacement Screws

- 1 package = 100 units

vt11709	Pan head screw TX20 self-tapping M4x8	EPLHS-M4X8	144028	1
	M4x16	EPLHS-M4X16	141863	1

vt11609



vt11609	Hexagon screw M8x16	EPHHS-M8X16	144030	1
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Technical data Busbar-system, spacing between busbars 60 mm**Busbar-system up to 630 A**

Illustration	Designation/type	Type / Order.-No.		
Rail support, 3-pole for height of cover plate 300 mm				
VT09610	Width of system	Rated conditional short-circuit current at distance between support 250 mm	Module units	
	No. of supports	surge current short-time current		
		I_{pk}	I_{cw}	U
	315 A	250 mm / 2 pcs.	60 kA	28.6 kA / 0.30s
	Cu 1 x 20 x 5 mm	500 mm / 3 pcs.	60 kA	28.6 kA / 0.30s
	3-poles	750 mm / 4 pcs.	60 kA	28.6 kA / 0.30s
	4-poles	1000 mm / 5 pcs.	60 kA	28.6 kA / 0.30s
	5-poles	1250 mm / 6 pcs.	60 kA	28.6 kA / 0.30s
	400 A	250 mm / 2 pcs.	85 kA	40.5 kA / 0.30s
	Cu 1 x 30 x 5 mm	500 mm / 3 pcs.	85 kA	40.5 kA / 0.30s
	3-poles	750 mm / 4 pcs.	85 kA	40.5 kA / 0.30s
	4-poles	1000 mm / 5 pcs.	85 kA	40.5 kA / 0.30s
	5-poles	1250 mm / 6 pcs.	85 kA	40.5 kA / 0.30s
	630 A	250 mm / 2 pcs.	85 kA	40.5 kA / 0.50s
	Cu 1 x 30 x 10 mm	500 mm / 3 pcs.	85 kA	40.5 kA / 0.50s
	3-poles	750 mm / 4 pcs.	85 kA	40.5 kA / 0.50s
	4-poles	1000 mm / 5 pcs.	85 kA	40.5 kA / 0.50s
	5-poles	1250 mm / 6 pcs.	85 kA	40.5 kA / 0.50s
	SL63031			
				No.148582
				SL63032
				No.148583
				SL63033
				No.148584

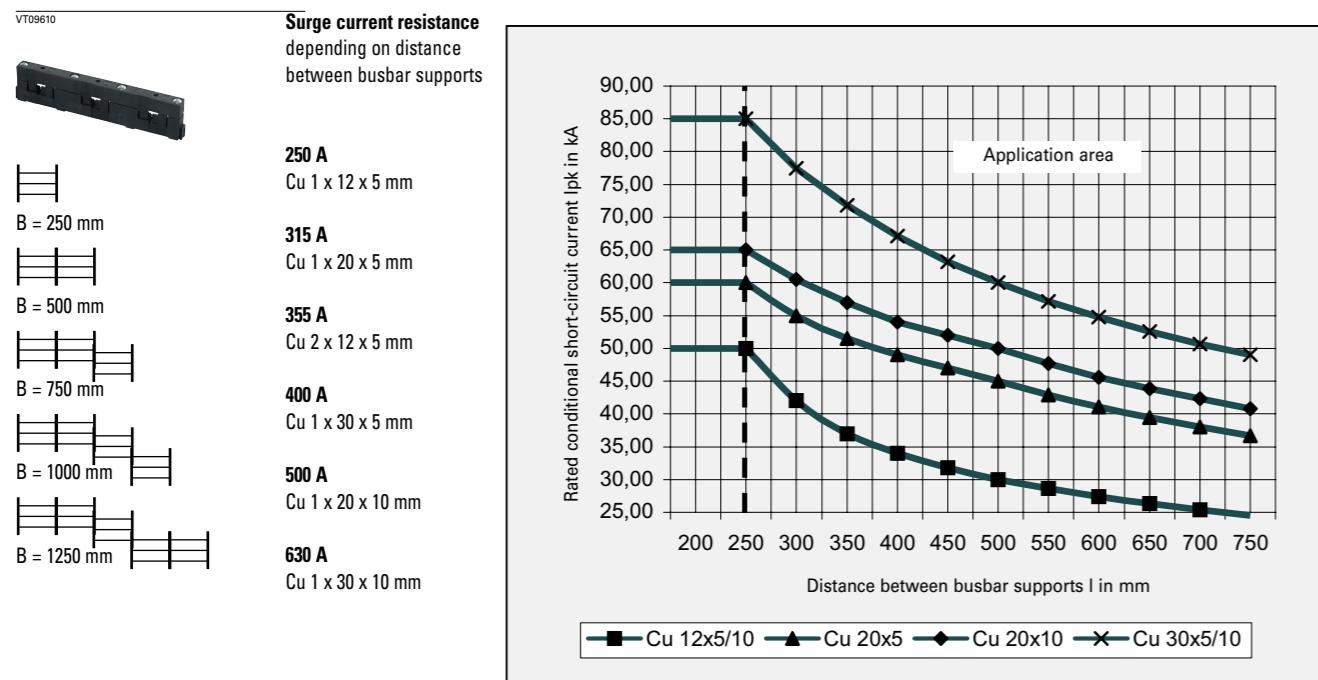
Busbar support, 3-/5-poles height of cover plate 300 mm**Technical data Busbar-system, spacing between busbars 100 mm****Busbar-system up to 630 A**

Illustration	Designation/type	Type / Order.-No.		
Rail support, 3-pole for height of cover plate 450 mm				
VT07510	Rated current	Rated conditional short-circuit current at distance between support 500 mm		
		surge current	short-time current	
	I_{pk}	I_{cw}		
	315 A	21.0 kA	10.0 kA / 1s	TN630/3-R10
	Cu 1 x 20 x 5 mm			No.148590
	400 A	32.0 kA	15.0 kA / 1s	
	Cu 1 x 30 x 5 mm			
	500 A	42.0 kA	20.0 kA / 1s	
	Cu 1 x 20 x 10 mm			
	630 A	63.0 kA	30.0 kA / 1s	
	Cu 1 x 30 x 10 mm			

Technical data Busbar-system, spacing between busbars 185 mm**Busbar-system up to 2000 A**

Illustration	Designation/type	Type / Order.-No.		
Rail support, 3-pole for height of cover plate 750 mm				
VT07410	Rated current	Rated conditional short-circuit current at distance between support 1000 mm		
		surge current	short-time current	
	I_{pk}	I_{cw}		
	800 A	64.0 kA	30.5 kA / 1s	T2000/3-R185T
	Cu 1 x 40 x 10 mm			No.148591
	1000 A	81.0 kA	38.5 kA / 1s	
	Cu 1 x 50 x 10 mm			
	1250 A	81.0 kA	38.5 kA / 1s	
	Cu 1 x 60 x 10 mm			
	1500 A	81.0 kA	38.5 kA / 1s	
	Cu 1 x 80 x 10 mm			
	2000 A	81.0 kA	38.5 kA / 1s	
	Cu 1 x 100 x 10 mm			

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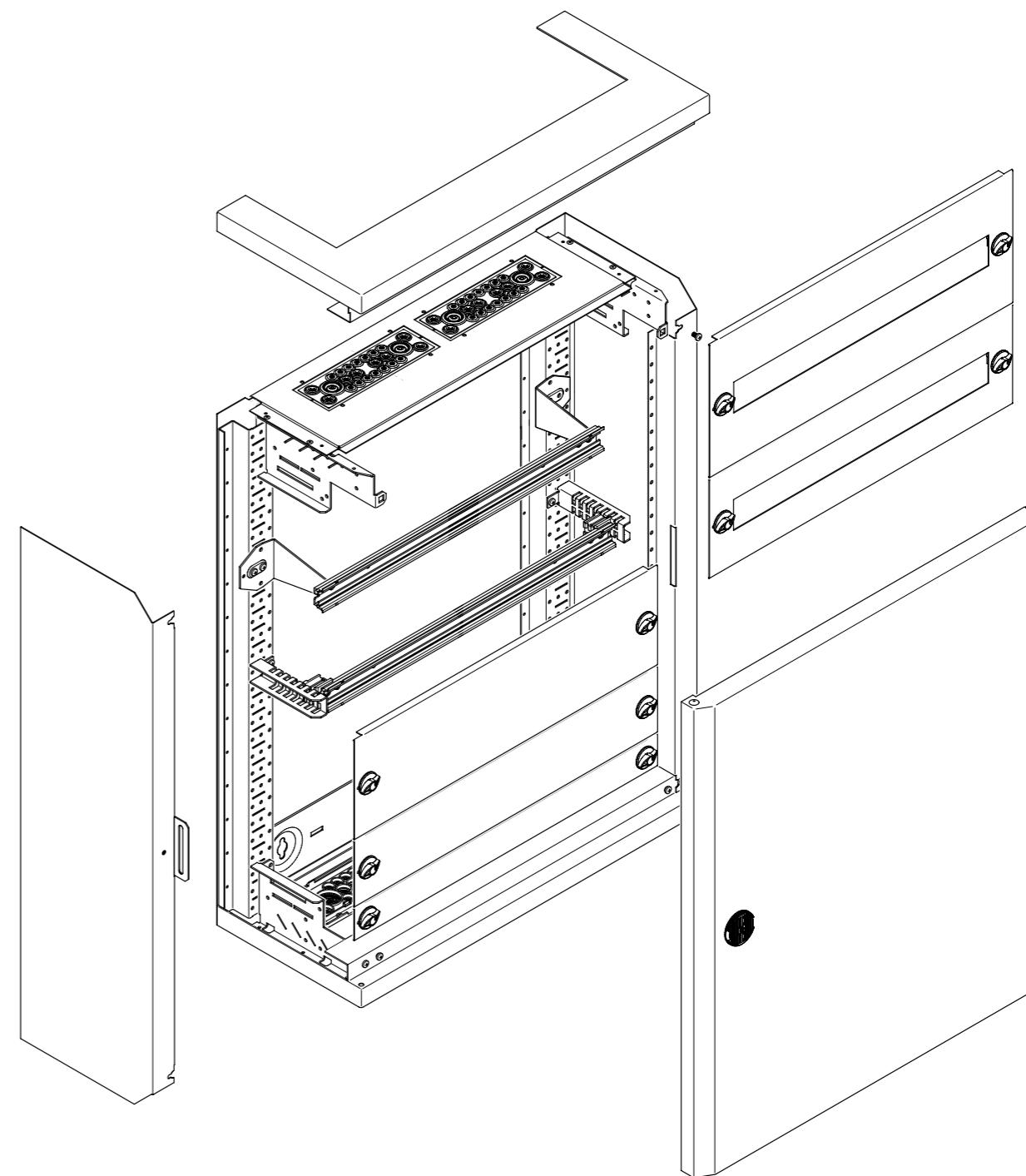
Distribution Boards

Distribution Boards

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System Overview

BP-O-..., IP30 (IP31), enclosure depth 262 mm



xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (pre-assembled)



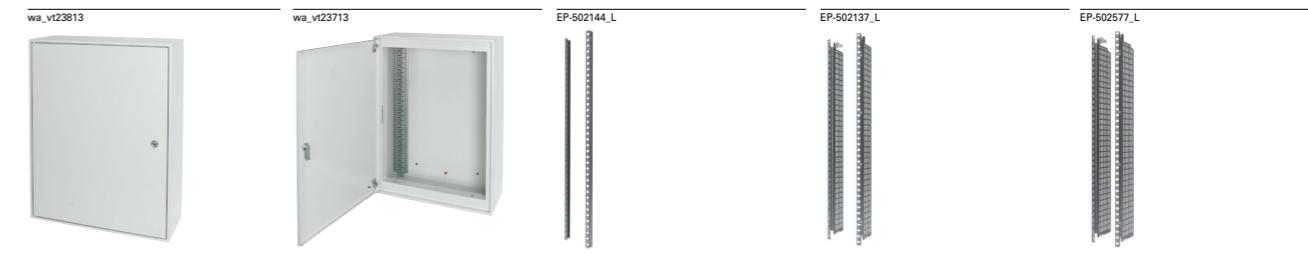
Width [mm]	Height [mm]	Height int. [mm]	Pre-assembled configuration / installation back frame / incl. 2K-flange on top / Door with swing handle	Pre-assembled configuration / individual installation / incl. 2K-flange on top / Door with turning bolt
			RAL 7035 grey Fully equipped with mounting insert	RAL 9016 white Fully equipped with mounting insert
			Cat. No. per unit unit = 1 pc.	RAL 7035 grey Empty Cat. No. per unit unit = 1 pc.

BP-O-..., IP30 - fully assembled

400 (13MU/row)	460	350	BP-O-400/4-C 194518	BP-O-400/4-C-W 194522	BP-O-400/4-PSN 149116
	760	650	BP-O-400/7-C 194519	BP-O-400/7-C-W 194523	BP-O-400/7-PSN 149117
	1060	950	BP-O-400/10-C 194520	BP-O-400/10-C-W 194524	BP-O-400/10-PSN 149118
	1260	1150	BP-O-400/12-C 194521	BP-O-400/12-C-W 194515	BP-O-400/12-PSN 149119
	1560	1450	-	-	BP-O-400/15-PSN 149150
600 (24MU/row)	460	350	-	-	BP-O-600/4-PSN 149151
	760	650	BP-O-600/7-C 293307	BP-O-600/7-C-W 105534	BP-O-600/7-PSN 149152
	1060	950	BP-O-600/10-C 293308	BP-O-600/10-C-W 105535	BP-O-600/10-PSN 149153
	1260	1150	BP-O-600/12-C 293309	BP-O-600/12-C-W 105536	BP-O-600/12-PSN 149154
	1560	1450	BP-O-600/15-C 293310	BP-O-600/15-C-W 105537	BP-O-600/15-PSN 149155
800 (35MU/row)	460	350	-	-	BP-O-800/4-PSN 149156
	760	650	BP-O-800/7-C 293311	BP-O-800/7-C-W 105538	BP-O-800/7-PSN 149157
	1060	950	BP-O-800/10-C 293312	BP-O-800/10-C-W 105539	BP-O-800/10-PSN 149158
	1260	1150	BP-O-800/12-C 293313	BP-O-800/12-C-W 105540	BP-O-800/12-PSN 149159
	1560	1450	BP-O-800/15-C 293314	BP-O-800/15-C-W 105541	BP-O-800/15-PSN 149160
1000 (46MU/row)	1060	950	-	-	BP-O-1000/10-PSN 149161
	1260	1150	-	-	BP-O-1000/12-PSN 149162
	1560	1450	-	-	BP-O-1000/15-PSN 149163
1200 (57MU/row)	1260	1150	-	-	BP-O-1200/12-PSN 149164
	1560	1450	-	-	BP-O-1200/15-PSN 149165

xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (pre-assembled)



Welded construction / installation back frame / completely closed / Door with BPZ-LOCK/SH6METAL	Installation back frame / Frontplate support	MSW installation / Mounting Side Wall (MSW) with standard depth	MSW installation / Mounting Side Wall (MSW) with extended depth
RAL 7035 grey Empty fire-resistant (E60/EW60)	RAL 9016 white Empty fire-resistant (E60/EW60)	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

BP-O-400/4-EW 116614	BP-O-400/4-EW-W 116632	PSN-FPS/4 EP-502142	PSN-MSW/4 EP-502135	PSN-MSW/4-EXT EP-502575
BP-O-400/7-EW 116615	BP-O-400/7-EW-W 116633	PSN-FPS/7 EP-502143	PSN-MSW/7 EP-502136	PSN-MSW/7-EXT EP-502576
BP-O-400/10-EW 116616	BP-O-400/10-EW-W 116634	PSN-FPS/10 EP-502144	PSN-MSW/10 EP-502137	PSN-MSW/10-EXT EP-502577
BP-O-400/12-EW 116617	BP-O-400/12-EW-W 116635	PSN-FPS/12 EP-502145	PSN-MSW/12 EP-502138	PSN-MSW/12-EXT EP-502578
BP-O-400/15-EW 116618	BP-O-400/15-EW-W 116636	PSN-FPS/15 EP-502146	PSN-MSW/15 EP-502139	PSN-MSW/15-EXT EP-502579
BP-O-600/4-EW 116619	BP-O-600/4-EW-W 116637	PSN-FPS/4 EP-502142	PSN-MSW/4 EP-502135	PSN-MSW/4-EXT EP-502575
BP-O-600/7-EW 116620	BP-O-600/7-EW-W 116638	PSN-FPS/7 EP-502143	PSN-MSW/7 EP-502136	PSN-MSW/7-EXT EP-502576
BP-O-600/10-EW 116621	BP-O-600/10-EW-W 116639	PSN-FPS/10 EP-502144	PSN-MSW/10 EP-502137	PSN-MSW/10-EXT EP-502577
BP-O-600/12-EW 116622	BP-O-600/12-EW-W 116640	PSN-FPS/12 EP-502145	PSN-MSW/12 EP-502138	PSN-MSW/12-EXT EP-502578
BP-O-600/15-EW 116623	BP-O-600/15-EW-W 116641	PSN-FPS/15 EP-502146	PSN-MSW/15 EP-502139	PSN-MSW/15-EXT EP-502579
BP-O-800/4-EW 116624	BP-O-800/4-EW-W 116642	EP-502146 EP-502142	PSN-MSW/4 EP-502135	PSN-MSW/4-EXT EP-502575
BP-O-800/7-EW 116625	BP-O-800/7-EW-W 116643	PSN-FPS/7 EP-502143	PSN-MSW/7 EP-502136	PSN-MSW/7-EXT EP-502576
BP-O-800/10-EW 116626	BP-O-800/10-EW-W 116644	PSN-FPS/10 EP-502144	PSN-MSW/10 EP-502137	PSN-MSW/10-EXT EP-502577
BP-O-800/12-EW 116627	BP-O-800/12-EW-W 116645	PSN-FPS/12 EP-502145	PSN-MSW/12 EP-502138	PSN-MSW/12-EXT EP-502578
BP-O-800/15-EW 116628	BP-O-800/15-EW-W 116646	PSN-FPS/15 EP-502146	PSN-MSW/15 EP-502139	PSN-MSW/15-EXT EP-502579
BP-O-1000/10-EW 116629	BP-O-1000/10-EW-W 116647	PSN-FPS/10 EP-502144	PSN-MSW/10 EP-502137	PSN-MSW/10-EXT EP-502577
BP-O-1000/12-EW 116630	BP-O-1000/12-EW-W 116648	PSN-FPS/12 EP-502145	PSN-MSW/12 EP-502138	PSN-MSW/12-EXT EP-502578
BP-O-1000/15-EW 116631	BP-O-1000/15-EW-W 116649	PSN-FPS/15 EP-502146	PSN-MSW/15 EP-502139	PSN-MSW/15-EXT EP-502579
		PSN-FPS/12 EP-502145	PSN-MSW/12 EP-502138	PSN-MSW/12-EXT EP-502578
		PSN-FPS/15 EP-502146	PSN-MSW/15 EP-502139	PSN-MSW/15-EXT EP-502579

Description**BP-O-..., IP30 (IP31), enclosure depth 262 mm**

- Delivery as flat-pack or pre-assembled cabinet possible
- Degree of protection IP30
- Impact resistance IK08
- Protection class I (protective earth)
- Cable entry / flange plate individually configurable
- The enclosure can be rotated by 180°
- Quick and easy change of the hinge direction, door opening angle ~160°
- Standard plastic cam lock
- Direct wall mounting possible
- Enclosure made from powder-coated sheet steel, RAL 7035 / RAL 9016
- Lateral add-on connection as well as top/bottom arrangement possible
- Variable interior installation either with „Mounting base frame“ or „Mounting side panel“ (MSW)
- Better accessibility during assembly due to multi-layered construction (Base frame - cable entry - interior fitting - installation components - wiring - enclosed covering - door)

Technical data**BP-O-...****Electrical**

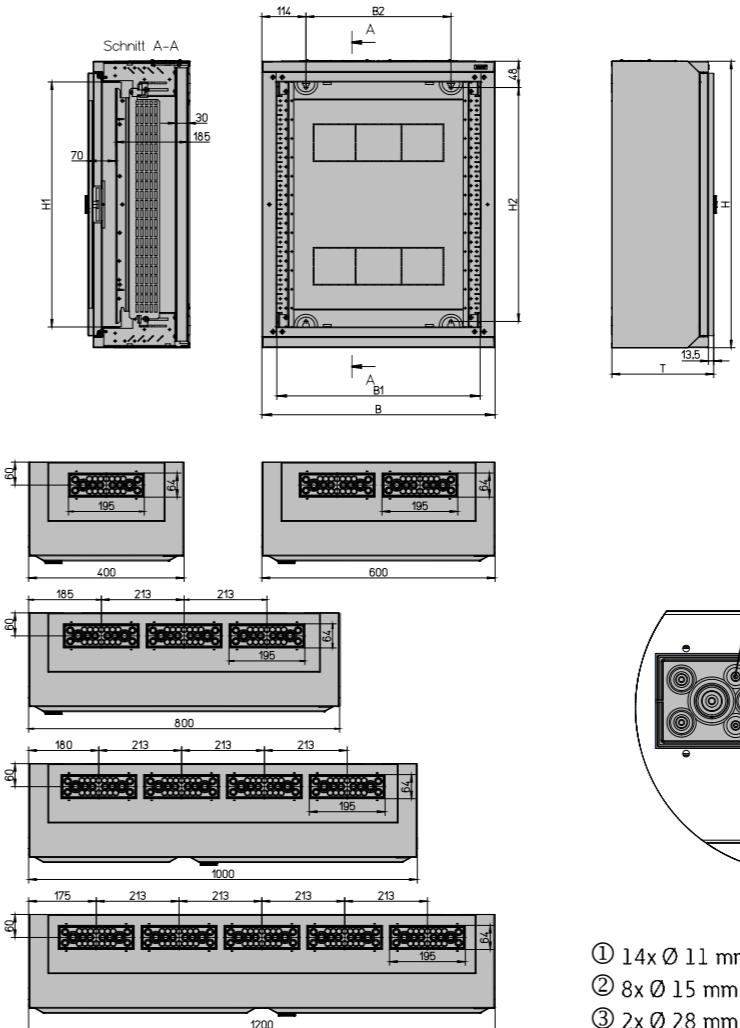
Type conforms to	IEC/EN 62208
Protection class	I (protective earth)
Degree of protection	IP30 (closed version with door/flansche) IP31 (special top panels BP-TBP1-...-IP31 required) IP2XC (open door, the installation level is properly protected with front covers)
Impact resistance	IK08
Rated operational voltage	415 VAC / 50Hz
Rated current	Max. 630 A (depending on the type of incoming circuit breaker or the busbar system being used)
Earthing concept for the enclosure	
Main earthing	By means of self-tapping screw M5 on base frame
Door earthing	By means of M6 welding bolts

The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1.

For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35° C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc.to IEC/TR 60890).

Mechanical

Enclosure	Modular design by „flat-pack“ construction possible, complete cabinets pre-assembled at the factory
Material	Sheet steel 1 mm, phosphated and polyester powder coated (structured) with corrosion protection
Colour	Traffic white, RAL 9016 / Light grey RAL 7035
Door	Hinges on the inside, door opening angle ~160° (in case of lateral alignment ~100°) Doors with transparent window individually configurable, hinged either left or right Three-point locking mechanism based on double-wing design width 1000 / 1200 mm
Type	Flexible interior fitting with installation units ProfiSNAP on base frame or „mounting side panel“ (MSW) Mounting base frame: multi-layer construction, installation directly in the enclosure, robust and structured Mounting side panel (MSW): removable mounting insert, external installation, fast and reliable
Locking mechanism	Standard cam lock (plastic), can be exchanged for a metal lock with standard locking mechanism/two-way key bit or doors with swing handle
Cable entry	Complete cabinets equipped with two-component membrane flanges on one side, in case of flat-pack individually configurable, either Closed cable entry / flange plate, with two-component flanges equipped or prepared for F3A-flanges
Ambient condition	Indoor installation (wall mounting) Max. ambient temperature +40° C Min. ambient temperature -5° C
Halogen-free, RoHS	< 1%, yes
Accessories	A 100/200 mm base if used as a floor-standing cabinet, alternative lock options, add-on connection kit
Delivered as	Flat-pack components as well as complete cabinet prepared for „Mounting base frame“ or „MSW“ Complete cabinets of type BP-O-...-C are already equipped with a standard mounting insert

Dimensions (mm)**BP-O-..., IP30 (IP31), enclosure depth 262 mm**

① 14x Ø 11 mm

② 8x Ø 15 mm

③ 2x Ø 28 mm

Type	Overall dimensions			Internal dimensions (front plate)		Wall mounting (Enclosure directly)	Pv [W] (ΔT 20K)	Pv [W] (ΔT 35K)
	Width B	Height H	Depth T	Width B1	Height H1			
BP-O-400/4	400	460	262	320	350	173	342	39
BP-O-400/7	400	760	262	320	650	173	642	54
BP-O-400/10	400	1060	262	320	950	173	942	69
BP-O-400/12	400	1260	262	320	1150	173	1142	57
BP-O-400/15	400	1560	262	320	1450	173	1442	66
BP-O-600/4	600	460	262	520	350	373	342	53
BP-O-600/7	600	760	262	520	650	373	642	70
BP-O-600/10	600	1060	262	520	950	373	942	70
BP-O-600/12	600	1260	262	520	1150	373	1142	80
BP-O-600/15	600	1560	262	520	1450	373	1442	108
BP-O-800/4	800	460	262	720	350	573	342	68
BP-O-800/7	800	760	262	720	650	573	642	75
BP-O-800/10	800	1060	262	720	950	573	942	95
BP-O-800/12	800	1260	262	720	1150	573	1142	120
BP-O-800/15	800	1560	262	720	1450	573	1442	139
BP-O-1000/10	1000	1060	262	920	950	773	942	134
BP-O-1000/12	1000	1260	262	920	1150	773	1142	149
BP-O-1000/15	1000	1560	262	920	1450	773	1442	183
BP-O-1200/12	1200	1260	262	1120	1150	973	1142	187
BP-O-1200/15	1200	1560	262	1120	1450	973	1442	213

xEnergy Distribution Boards

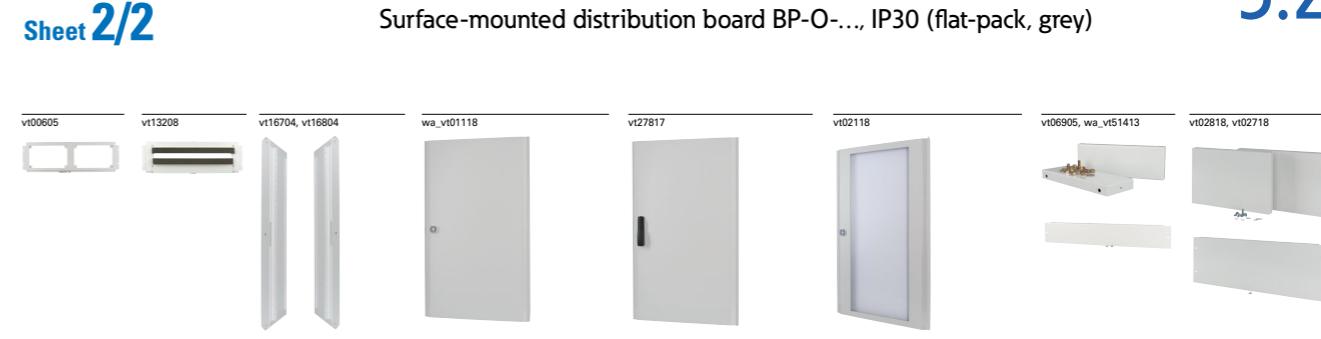
Surface-mounted distribution board BP-O-..., IP30 (flat-pack, grey)

xEnergy Basic
Sheet 1/2

Width [mm]	Height [mm]	Height int. [mm]	Main frame	Top/bottom panels closed without cutout / 1 pair / Single element	Top/bottom panels with cutout for cable entry / Flange plate / 1 pair / Single element	Top panel IP31 (closed) incl. F3A-XP	Cable entry / Flange plate / Closed	Cable entry / Flange plate incl. 2K-flange
				Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

BP-O-..., IP30 (universal installation, mounting back frame or MSW) colour GREY (RAL 7035)

400 (13MU/row)	460	350	BP-MF-400/4 BP-TBP-400-BL 286653	BP-TBP-400-CE 286698	BP-TBP1-400-F3A-IP31 194526	BP-FLP-400-BL 286704	BP-FLP-400-2K 286705	
	760	650	BP-MF-400/7 BP-TBP1-400-BL 286654	BP-TBP1-400-CE 144689				
	1060	950	BP-MF-400/10 286655					
	1260	1150	BP-MF-400/12 286656					
	1560	1450	BP-MF-400/15 286657					
600 (24MU/row)	460	350	BP-MF-600/4 BP-TBP-600-BL 286658	BP-TBP-600-CE 286700	BP-TBP1-600-F3A-IP31 194527	BP-FLP-600-BL 286707	BP-FLP-600-2K 286708	
	760	650	BP-MF-600/7 BP-TBP1-600-BL 286659	BP-TBP1-600-CE 144700				
	1060	950	BP-MF-600/10 286660					
	1260	1150	BP-MF-600/12 286661					
	1560	1450	BP-MF-600/15 286662					
800 (35MU/row)	460	350	BP-MF-800/4 BP-TBP-800-BL 286663	BP-TBP-800-CE 286702	BP-TBP1-800-F3A-IP31 194528	BP-FLP-800-BL 286710	BP-FLP-800-2K 286711	
	760	650	BP-MF-800/7 BP-TBP1-800-BL 286664	BP-TBP1-800-CE 144701				
	1060	950	BP-MF-800/10 286665					
	1260	1150	BP-MF-800/12 286666					
	1560	1450	BP-MF-800/15 286667					
1000 (46MU/row)	1060	950	BP-MF-1000/10 BP-TBP-1000-BL 293521	BP-TBP-1000-CE 293550	BP-TBP1-1000-F3A-IP31 194529	BP-FLP-1000-BL 293558	BP-FLP-1000-2K 293560	
	1260	1150	BP-MF-1000/12 BP-TBP1-1000-BL 293522	BP-TBP1-1000-CE 144702				
	1560	1450	BP-MF-1000/15 293523					
1200 (57MU/row)	1260	1150	BP-MF-1200/12 BP-TBP-1200-BL 293524	BP-TBP-1200-CE 293554	BP-TBP1-1200-F3A-IP31 194530	BP-FLP-1200-BL 293564	BP-FLP-1200-2K 293566	
	1560	1450	BP-MF-1200/15 293525	BP-TBP1-1200-BL 144703	BP-TBP1-1200-CE 144708			

xEnergy Basic
Sheet 2/2

Cable entry / Flange plate / Prepared for F3A-flange	Cable entry / Flange plate / Prepared for shift-back flange	Side panels 1 pair	Sheet-metal door / Swing handle	Sheet-metal door / Clip-down handle	Sheet-metal door (transparent) / Swing handle	Plinth 100 mm / Side parts 1 pair / Front cover	Plinth 200 mm / Side parts 1 pair / Front cover
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Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.
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BP-FLP-400-F3A 286706	BP-FLP-400-VS 119355	BP-SP-4-PSN 111339	BP-DS-400/4 286713	BP-DS-400/4-P 119063	BP-DT-400/4 286728	BPZ-SS-1/249 119168	BPZ-SS-2/249 119172
		BP-SP-7-PSN 111341	BP-DS-400/7 286714	BP-DS-400/7-P 119064	BP-DT-400/7 286729	BPZ-FS-400/1 293493	BPZ-FS-400/2 293495
		BP-SP-10-PSN 111342	BP-DS-400/10 286715	BP-DS-400/10-P 119065	BP-DT-400/10 286730		
		BP-SP-12-PSN 111343	BP-DS-400/12 286716	BP-DS-400/12-P 119066	BP-DT-400/12 286731		
		BP-SP-15-PSN 111344	BP-DS-400/15 286717	BP-DS-400/15-P 119067	BP-DT-400/15 286732		
		BP-FLP-600-F3A 286709	BP-FLP-600-VS 119356	BP-SP-4-PSN 111339	BP-DS-600/4 286718	BP-DS-600/4-P 119068	BPZ-SS-1/249 119168
						BP-DT-600/4 286733	BPZ-SS-2/249 119172
				BP-SP-7-PSN 111341	BP-DS-600/7 286719	BP-DS-600/7-P 119069	BPZ-FS-600/1 293497
						BP-DT-600/7 286734	BPZ-FS-600/2 293499
		BP-SP-10-PSN 111342	BP-DS-600/10 286720	BP-DS-600/10-P 119070	BP-DT-600/10 286735		
		BP-SP-12-PSN 111343	BP-DS-600/12 286721	BP-DS-600/12-P 119071	BP-DT-600/12 286736		
		BP-SP-15-PSN 111344	BP-DS-600/15 286722	BP-DS-600/15-P 119072	BP-DT-600/15 286737		
		BP-FLP-800-F3A 286712	BP-FLP-800-VS 119357	BP-SP-4-PSN 111339	BP-DS-800/4 286723	BP-DS-800/4-P 119073	BPZ-SS-1/249 119168
						BP-DT-800/4 286738	BPZ-SS-2/249 119172
				BP-SP-7-PSN 111341	BP-DS-800/7 286724	BP-DS-800/7-P 119074	BPZ-FS-800/1 293501
						BP-DT-800/7 286739	BPZ-FS-800/2 293503
		BP-SP-10-PSN 111342	BP-DS-800/10 286725	BP-DS-800/10-P 119075	BP-DT-800/10 286740		
		BP-SP-12-PSN 111343	BP-DS-800/12 286726	BP-DS-800/12-P 119076	BP-DT-800/12 286741		
		BP-SP-15-PSN 111344	BP-DS-800/15 286727	BP-DS-800/15-P 119077	BP-DT-800/15 286742		
		BP-FLP-1000-F3A 293562	BP-FLP-1000-VS 119358	BP-SP-10-PSN 111342	BP-DS-600/10+BP-DS-400/10-L 286720 + 293570	BP-DS-600/10+BP-DS-400/10-L 119070 + 293570	BPZ-SS-1/249 119168
						BP-DT-600/10+BP-DS-400/10-L 286735 + 293580	BPZ-SS-2/249 119172
				BP-SP-12-PSN 111343	BP-DS-600/12+BP-DS-400/12-L 286721 + 293572	BP-DS-600/12+BP-DS-400/12-L 119071 + 2	

xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (flat-pack, white)



Width [mm]	Height [mm]	Height int. [mm]	Main frame	Top/bottom panels closed without cutout / 1 pair / Single element	Top/bottom panels with cutout for cable entry / Flange plate / 1 pair / Single element	Top panel IP31 (closed) incl. F3A-XP	Cable entry / Flange plate / Closed	Cable entry / Flange plate incl. 2K-flange
			Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.
BP-O-..., IP30 (universal installation, mounting back frame or MSW) colour WHITE (RAL 9016)								
400 (13MU/row)	460	350	BP-MF-400/4 286653	BP-TBP-400-BL-W 292420	BP-TBP1-400-CE-W 292421	BP-FLP-400-F3A-IP31-W 194531	BP-FLP-400-BL-W 292426	BP-FLP-400-2K-W 292427
	760	650	BP-MF-400/7 286654	BP-TBP1-400-BL-W 144709				
	1060	950	BP-MF-400/10 286655					
	1260	1150	BP-MF-400/12 286656					
	1560	1450	BP-MF-400/15 286657					
600 (24MU/row)	460	350	BP-MF-600/4 286658	BP-TBP-600-BL-W 292422	BP-TBP1-600-CE-W 292423	BP-TBP1-600-F3A-IP31-W 194532	BP-FLP-600-BL-W 292429	BP-FLP-600-2K-W 292430
	760	650	BP-MF-600/7 286659	BP-TBP1-600-BL-W 144710				
	1060	950	BP-MF-600/10 286660					
	1260	1150	BP-MF-600/12 286661					
	1560	1450	BP-MF-600/15 286662					
800 (35MU/row)	460	350	BP-MF-800/4 286663	BP-TBP-800-BL-W 292424	BP-TBP1-800-CE-W 292425	BP-TBP1-800-F3A-IP31-W 194533	BP-FLP-800-BL-W 292432	BP-FLP-800-2K-W 292433
	760	650	BP-MF-800/7 286664	BP-TBP1-800-BL-W 144711				
	1060	950	BP-MF-800/10 286665					
	1260	1150	BP-MF-800/12 286666					
	1560	1450	BP-MF-800/15 286667					
1000 (46MU/row)	1060	950	BP-MF-1000/10 293521	BP-TBP-1000-BL-W 293551	BP-TBP1-1000-CE-W 293553	BP-TBP1-1000-F3A-IP31-W 194534	BP-FLP-1000-BL-W 293559	BP-FLP-1000-2K-W 293561
	1260	1150	BP-MF-1000/12 293522	BP-TBP1-1000-BL-W 144712				
	1560	1450	BP-MF-1000/15 293523					
1200 (57MU/row)	1260	1150	BP-MF-1200/12 293524	BP-TBP-1200-BL-W 293555	BP-TBP-1200-CE-W 293557	BP-TBP1-1200-F3A-IP31-W 194535	BP-FLP-1200-BL-W 293565	BP-FLP-1200-2K-W 293567
	1560	1450	BP-MF-1200/15 293525	BP-TBP1-1200-BL-W 144713				

xEnergy Basic Sheet 1/2

xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (flat-pack, white)



Cable entry / Flange plate Prepared for F3A-flange	Cable entry / Flange plate With shift-back flange	Side panels 1 pair	Sheet-metal door / Swing handle	Sheet-metal door / Clip-down handle	Sheet-metal door / (transparent) Swing handle	Plinth 100 mm / Side parts 1 pair / Front cover	Plinth 200 mm / Side parts 1 pair / Front cover

Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

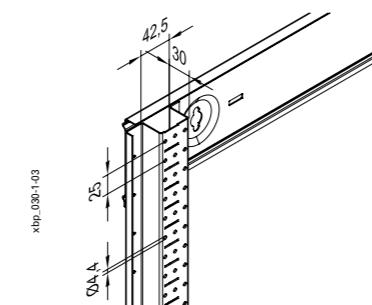
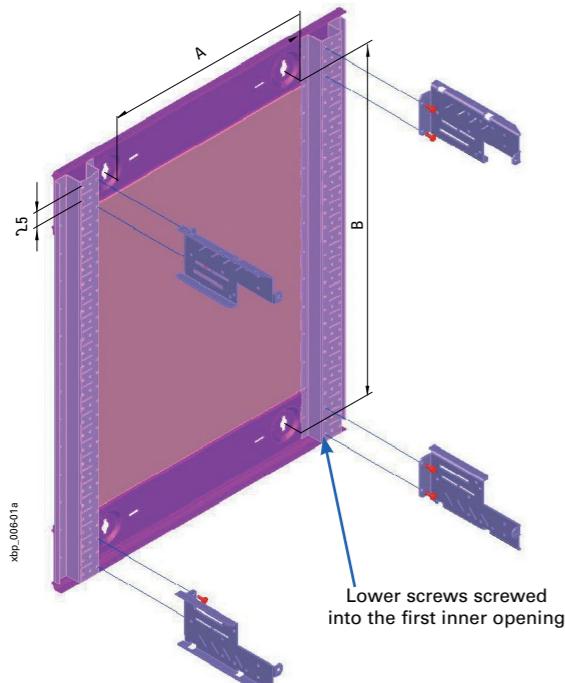
BP-FLP-400-F3A-W 292428	BP-FLP-400-VS-W 131573	BP-SP-4-W-PSN 111345	BP-DS-400/4-W 292435	BP-DS-400/4-P-W 119078	BP-DT-400/4-W 292450	BPZ-SS-1/249-W 119174	BPZ-SS-2/249-W 119176
		BP-SP-7-W-PSN 111347	BP-DS-400/7-W 292436	BP-DS-400/7-P-W 119079	BP-DT-400/7-W 292451	BPZ-FS-400/1-W 293496	BPZ-FS-400/2-W 293500
		BP-SP-10-W-PSN 111348	BP-DS-400/10-W 292437	BP-DS-400/10-P-W 119080	BP-DT-400/10-W 292452		
		BP-SP-12-W-PSN 111349	BP-DS-400/12-W 292438	BP-DS-400/12-P-W 119081	BP-DT-400/12-W 292453		
		BP-SP-15-W-PSN 111350	BP-DS-400/15-W 292439	BP-DS-400/15-P-W 119082	BP-DT-400/15-W 292454		

BP-FLP-600-F3A-W 292431	BP-FLP-600-VS-W 131574	BP-SP-4-W-PSN 111345	BP-DS-600/4-W 292440	BP-DS-600/4-P-W 119083	BP-DT-600/4-W 292455	BPZ-SS-1/249-W 119174	BPZ-SS-2/249-W 119176
		BP-SP-7-W-PSN 111347	BP-DS-600/7-W 292441	BP-DS-600/7-P-W 119084	BP-DT-600/7-W 292456	BPZ-FS-600/1-W 293498	BPZ-FS-600/2-W 293500
		BP-SP-10-W-PSN 111348	BP-DS-600/10-W 292442	BP-DS-600/10-P-W 119085	BP-DT-600/10-W 292457		
		BP-SP-12-W-PSN 111349	BP-DS-600/12-W 292443	BP-DS-600/12-P-W 119086	BP-DT-600/12-W 292458		
		BP-SP-15-W-PSN 111350	BP-DS-600/15-W 292444	BP-DS-600/15-P-W 119087	BP-DT-600/15-W 292459		

BP-FLP-800-F3A-W 292434	BP-FLP-800-VS-W 131575	BP-SP-4-W-PSN 11134
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Base frames, BP-MF

- Add-on design
- Symmetrical layout
- Consistent system perforation pattern (25 mm grid)
- Material: sheet steel, zinc-coated thickness 1 mm
- Delivered as: 1 base frame, 4 towers, fixing material



Width [mm]	A	Height [mm]	B
400	173	460	342,5
600	373	760	642,5
800	573	1060	942,5
1000	773	1260	1142,5
1200	973	1560	1442,5

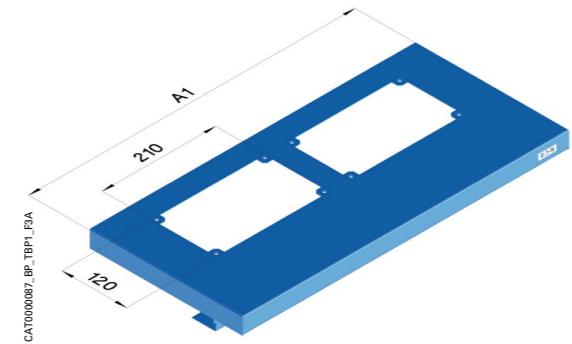
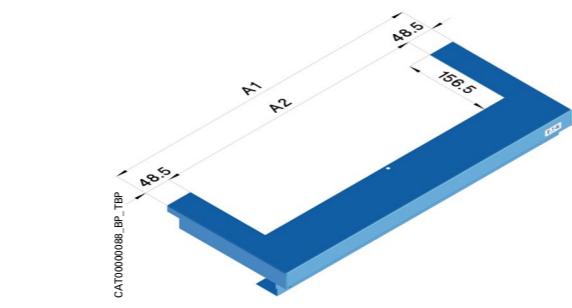
Top / bottom panels, BP-TBP..., BP-TBP1-...-F3A-IP31

- The top/bottom panels are used as covers for the cabinet
- With or without cable entry cutout
- Available as pair or single packaging depending on used version for top/bottom
- For upgrading your wall-mounted enclosure to IP31, it's mandatory to order type BP-TPB1-...-F3A-IP31 as top panel (canopy)
- Material: sheet steel, powder-coated, RAL 7035 or RAL 9016 thickness 1 mm
- Delivered as: 1 top panel, 1 bottom panel, fixing material

Dimensions (mm)

Type	Depth	Without cutout		With cutout	
		Outside width	Inside width	Outside width	Inside width
A1	A2	A1	A2	A1	A2
BP-TBP-400	249	400	—	400	300
BP-TBP-600	249	600	—	600	500
BP-TBP-800	249	800	—	800	700
BP-TBP-1000	249	1000	—	1000	900
BP-TBP-1200	249	1200	—	1200	1100

Type	incl. F3A-XP flange
BP-TBP1-400-F3A-IP31	Yes (1 pc.)
BP-TBP1-600-F3A-IP31	Yes (2 pcs.)
BP-TBP1-800-F3A-IP31	Yes (3 pcs.)
BP-TBP1-1000-F3A-IP31	Yes (3 pcs.)
BP-TBP1-1200-F3A-IP31	Yes (4 pcs.)

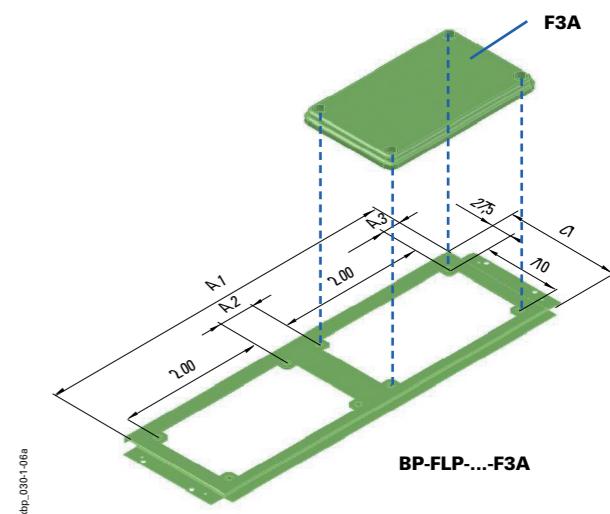
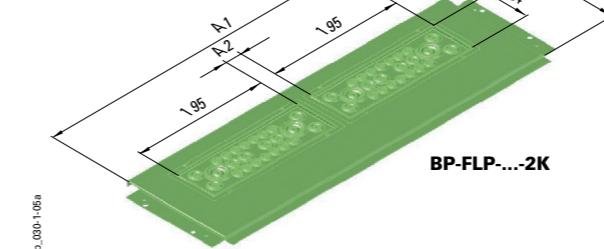
**Cable entry / flange plates, BP-FLP**

- Blind plate for closing the cable entry
- Cable entry plate with pass-through flange 2K (pre-fitted)
- Cable entry plate designed for F3A flange
- Mounting into BP-TBP-...-CE panels
- Can be used also for floor-standing board IP30
- Material: sheet steel, powder-coated, RAL 7035 thickness 1 mm
- Delivered as: 1 cable entry/flange plate, fixing material

Dimensions (mm)

Type	A1	A2	A3	C1	Number of flanges
BP-FLP-400-BL	300	—	—	155	-
BP-FLP-400-2K	300	—	51,95	155	1
BP-FLP-600-BL	500	—	—	155	-
BP-FLP-600-2K	500	18	45,45	155	2
BP-FLP-800-BL	700	—	—	155	-
BP-FLP-800-2K	700	18	38,95	155	3
BP-FLP-1000-BL	900	—	—	155	-
BP-FLP-1000-2K	900	18	31,45	155	4
BP-FLP-1200-BL	1100	—	—	155	-
BP-FLP-1200-2K	1100	18	25,95	155	5

Type	A1	A2	A3	C1	Number of openings for F3A flanges
BP-FLP-400-F3A	300	—	44,45	155	1
BP-FLP-600-F3A	500	40	19,45	155	2
BP-FLP-800-F3A	700	22	12,45	155	3
BP-FLP-1000-F3A	900	11,33	12,45	155	4
BP-FLP-1200-F3A	1100	6	12,45	155	5



xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (flat-pack)

Description	Type Designation	Cat. No.	Units per package
F3A-2K Flanges			
<ul style="list-style-type: none"> For IP55 applications, used for all type of distribution boards NEW flange series based on 2-component-technology Material compound of polyamide (PA - RAL 7035) and thermoplastic elastomer (TPE - RAL 7001) 			
501496_BK 	Blind flange without knock-outs	F3A-2K-0	EP-501496 1
501497_BK 	Membrane flange (push-through cable entry) 44 cables Ø 3-14mm 4 cables Ø 3-21mm 2 cables Ø 3-30mm	F3A-2K-D30/3	EP-501497 1
501498_BK 	Membrane flange (push-through cable entry) 7 cables Ø 3-20mm 4 cables Ø 3-32mm 3 cables Ø 3-50mm	F3A-2K-D50/3	EP-501498 1
501499_BK 	Membrane flange (push-through cable entry) 9 cables Ø 3-20mm 1 cable Ø 3-40mm 2 cables Ø 3-70mm	F3A-2K-D70/3	EP-501499 1
501500_BK 	Blind flange with knock-outs 24 cable glands M16 13 cable glands M20	F3A-2K-M20/16	EP-501500 1
501501_BK 	Blind flange with knock-outs 4 cable glands M16 6 cable glands M25/16 8 cable glands M32/20	F3A-2K-M32/16	EP-501501 1
501502_BK 	Blind flange with knock-outs 2 cable glands M20 8 cable glands M25/16 4 cable glands M32/20 1 cable gland M50/32	F3A-2K-M50/16-1	EP-501502 1
501503_BK 	Blind flange with knock-outs 2 cable glands M16 12 cable glands M20 2 cable glands M40/25 2 cable glands M50/32	F3A-2K-M50/16-2	EP-501503 1

xEnergy Basic**xEnergy Basic****xEnergy Distribution Boards**

Surface-mounted distribution board BP-O-..., IP30 (flat-pack)

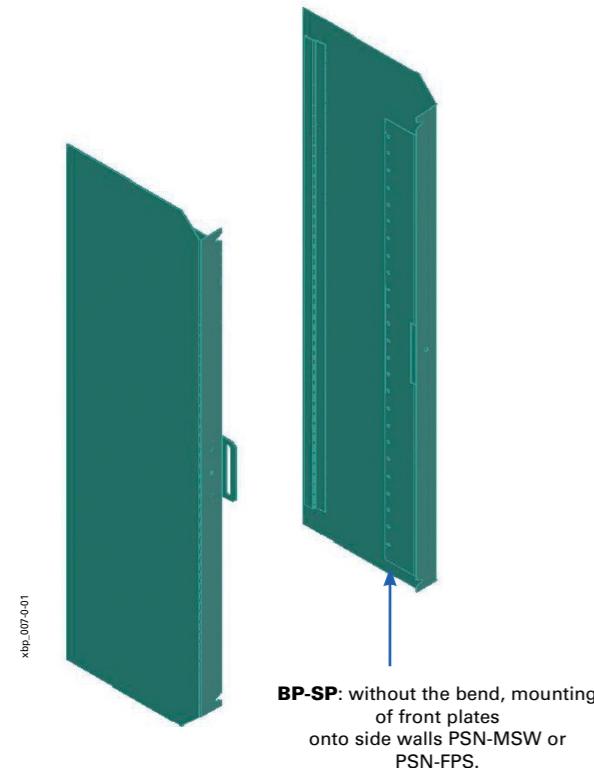
Description	Colour	Type Designation	Cat. No.	Units per package
F3A-XP Flanges				
<ul style="list-style-type: none"> For IP55 applications, used for all type of distribution boards Metal flange plates, powder-coated sheet steel 2 mm, RAL 7035 				
v109208 	Blind flange sheet-steel	F3A-XP	113426 1	
v13118 	Steel sheet with knockouts 9xM20, 2xM40/M32, 2xM50/M40	F3A-XP-M50/40	187862 1	
v13018 	Steel sheet with knockouts 10xM16, 12xM20	F3A-XP-M20/16	187863 1	
v106320 	Steel sheet with membrane flange insert made of thermoplastic elastomer (TPE) 9 cables Ø 18-30 mm 4 cables Ø 10-15 mm 4 cables Ø 5-10mm	F3A-XP-2K/17	300956 1	
Sheet metal flange plate as a ventilation hood				
<ul style="list-style-type: none"> For IP30 applications 				
VT28210 	Flange with ventilating	F3A-V	149194 1	
Adapter plate for external cable entry boxes				
<ul style="list-style-type: none"> Standard boxes type CI-KST32/34 of Ci-assortment (incl. accessories) can be used Especially to terminate bigger incoming cables outside of the cabinet to keep required space for modular units / devices internally For IP55 applications 				
vt04618 	Flange with sealing	F3A-KST32/34	193692 1	
Spare part flanges, smaller size for IP30 applications				
<ul style="list-style-type: none"> Pass-through flange for diverse wire cross-section, for IP30 applications 				
wa_vt07113 	14 cables Ø 11 mm 8 cables Ø 15 mm 2 cables Ø 28 mm	ZSD-2K/FLA	272166 1	
<ul style="list-style-type: none"> Material: sheet steel, powder-coated, RAL7035 / RAL9016, thickness 1 mm 				
vt28717 	RAL 7035 2K/BLIND RAL 9016 2K/BLIND-W		151178 1 151352 1	

xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (flat-pack), Technical data

Side panels BP-SP

- Side panels are used as part of cover for the cabinet
- 1 variant (for base frame assembly, order 1 pair PSN-FPS separately)
- Material: sheet steel, powder-coated, RAL 7035 or RAL 9016 thickness 1 mm
- Delivered as: 2 side panels



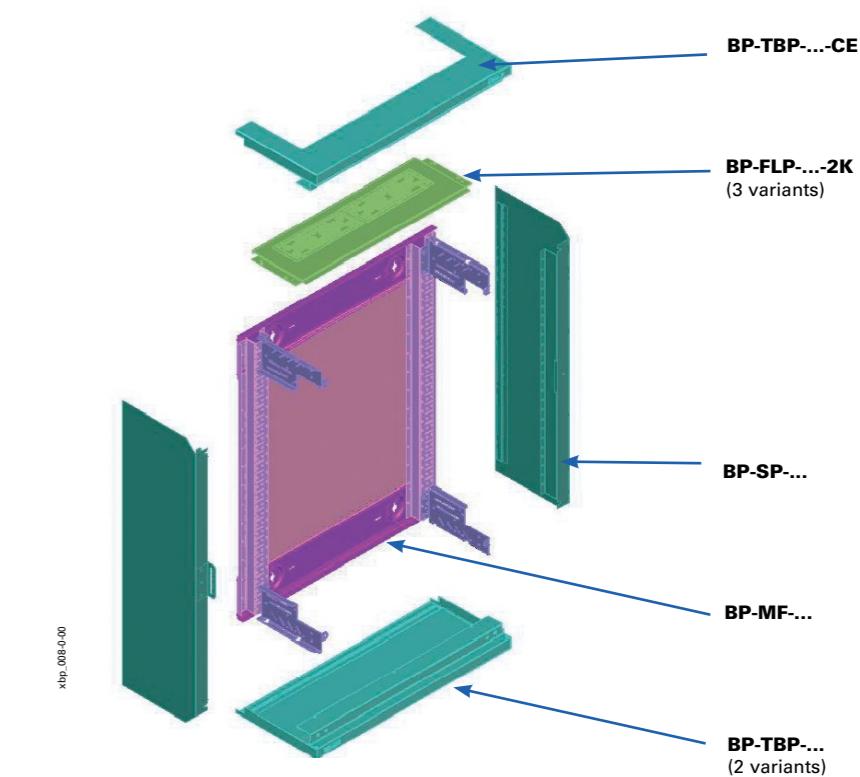
BP-SP: without the bend, mounting of front plates onto side walls PSN-MSW or PSN-FPS.

xEnergy Basic**xEnergy Basic****xEnergy Distribution Boards**

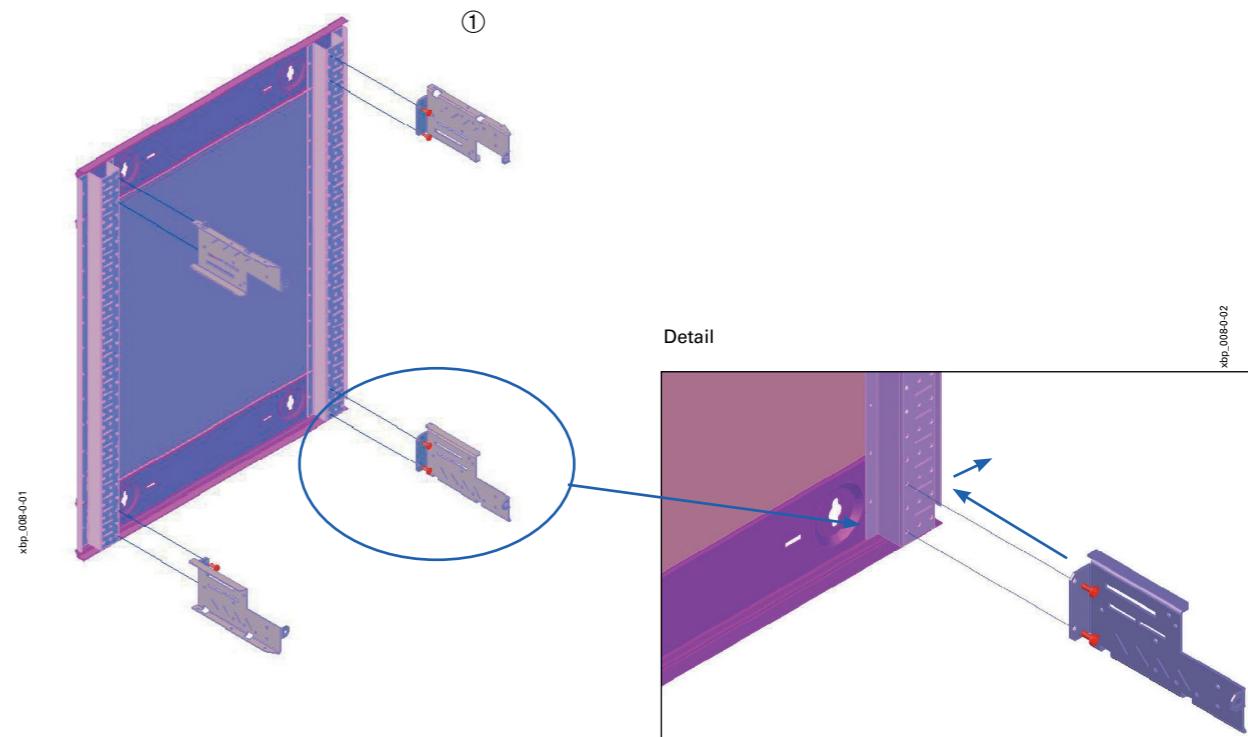
Surface-mounted distribution board BP-O-..., IP30 (flat-pack), Technical data

Board without a possibility of installation of mounting frame PSN-MSW

- Without side wall PSN-MSW

**Mounting process:**

- Mounting of towers BPZ-CTS-L onto base frame BP-MF. Towers BPZ-CTS-L are delivered as of the frame BP-MF.



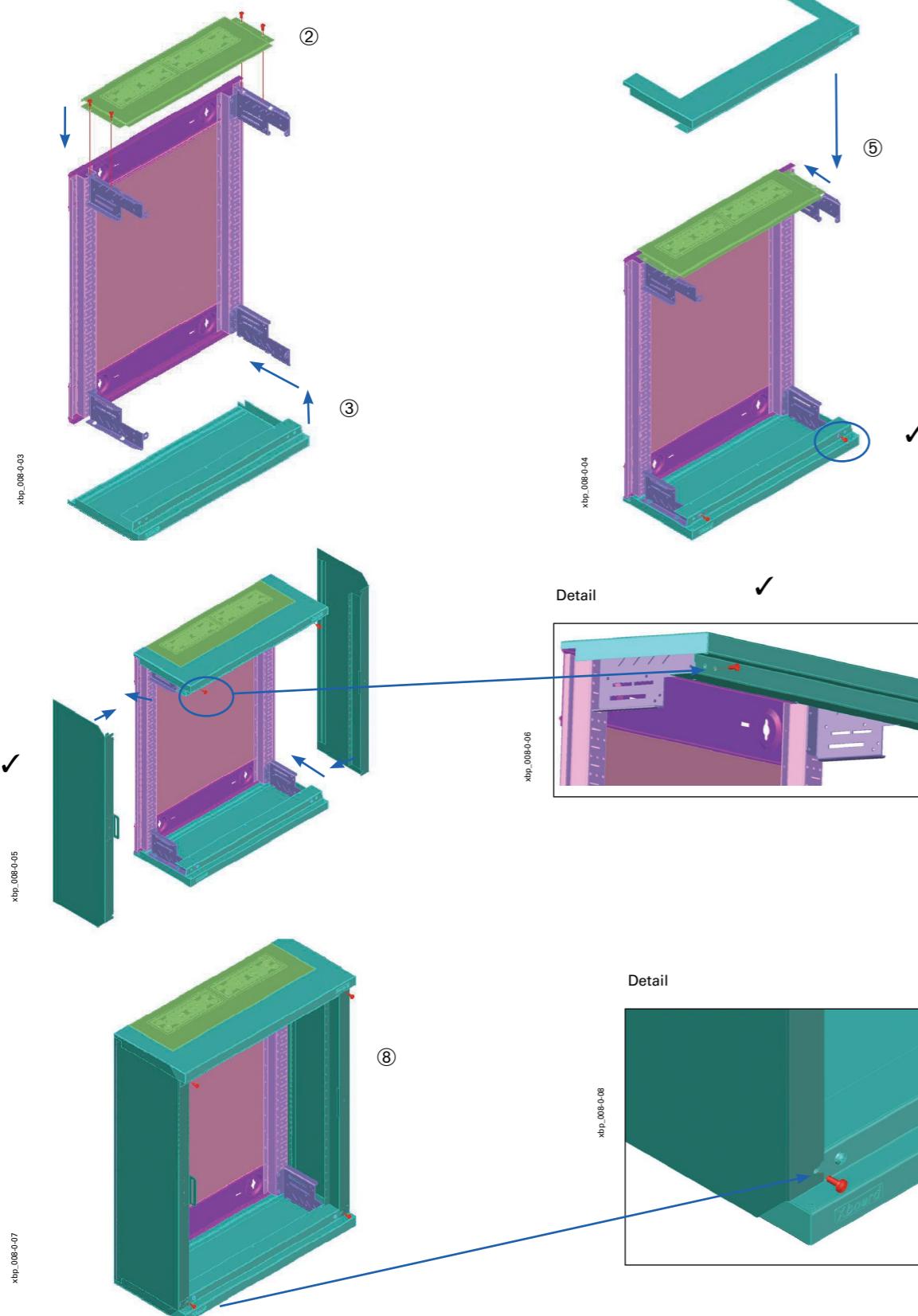
xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (flat-pack), Technical data

xEnergy Basic

Board without a possibility of installation of mounting frame PSN-MSW

2. Assembly of cable entry plates BP-FLP onto towers BPZ-CTS-L
3. Assembly of top / bottom panel without cutout (if used)
4. Fixing of top / bottom panel without cutout into towers BPZ-CTS-L by means of screws
5. Addition of cable entry plate with top / bottom panel
6. Fixing of top / bottom panel with cutout into towers BPZ-CTS-L by means of screws
7. Assembly of side panels BP-SP
8. Fixing of side panels BP-SP



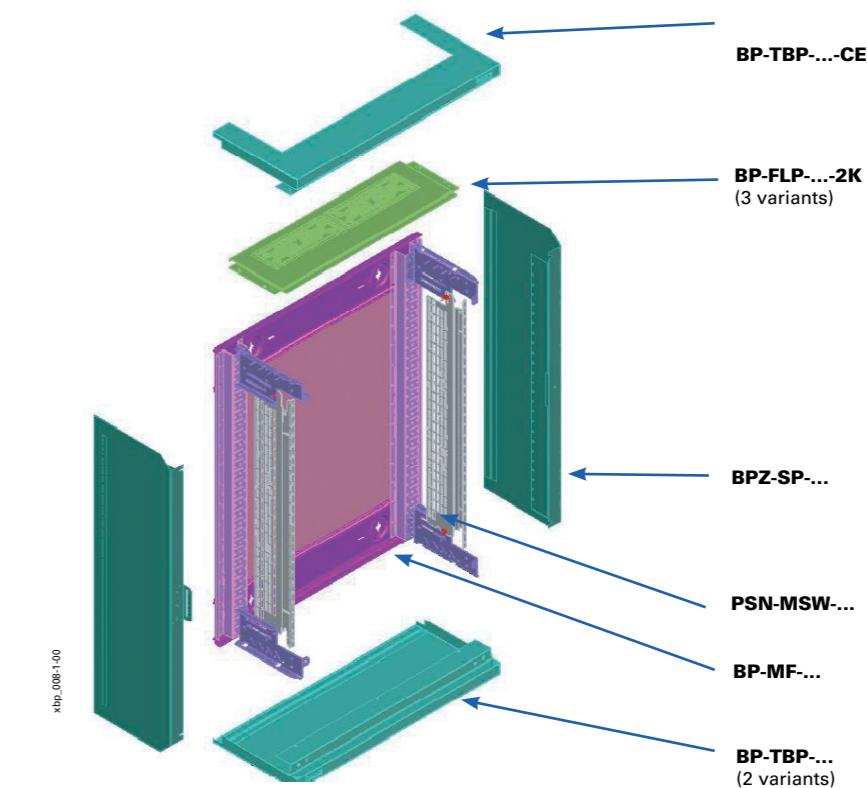
xEnergy Basic

Surface-mounted distribution board BP-O-..., IP30 (flat-pack), Technical data

xEnergy Distribution Boards

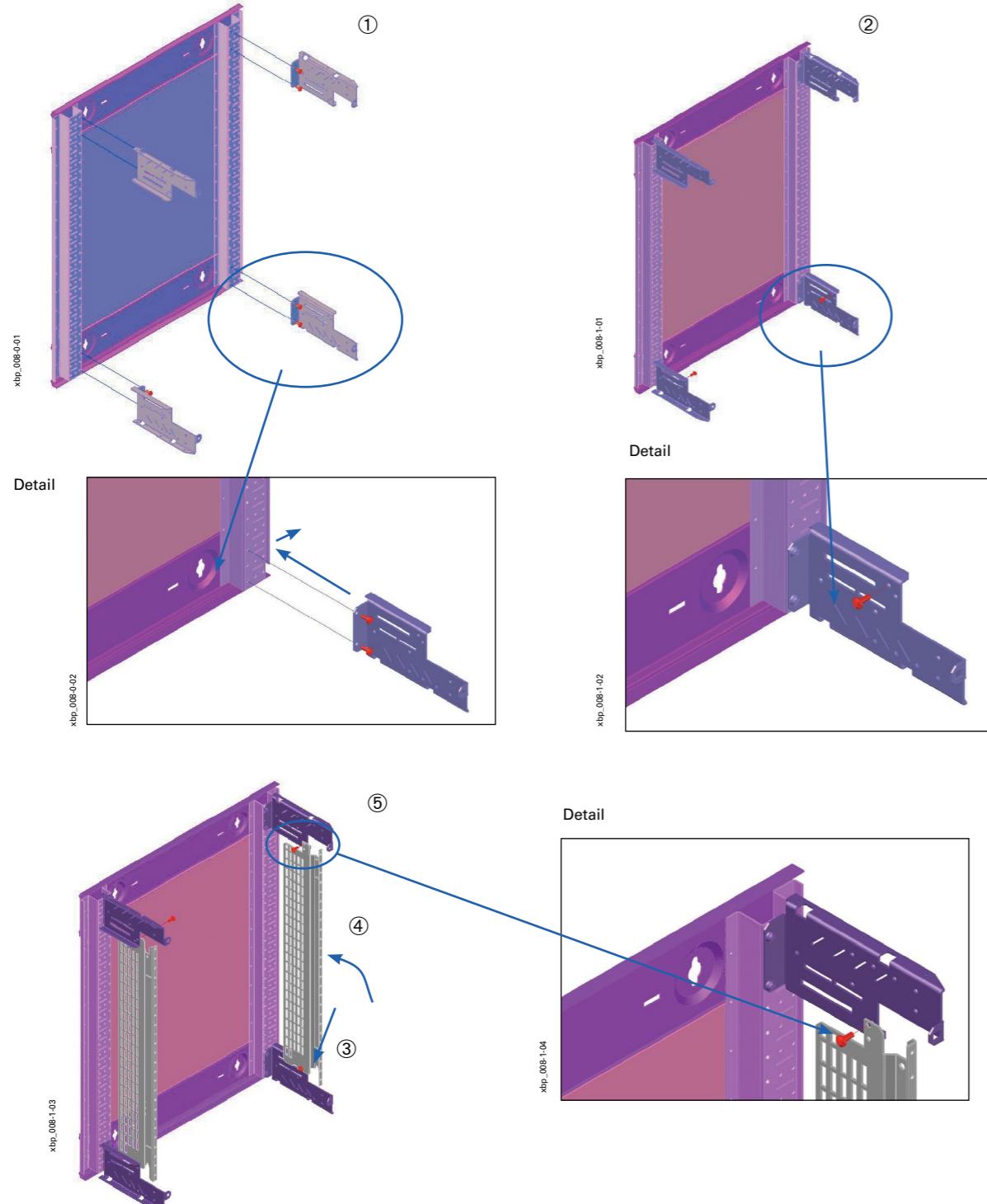
Board for installation of mounting frame PSN-MSW

- Incl. side wall PSN-MSW

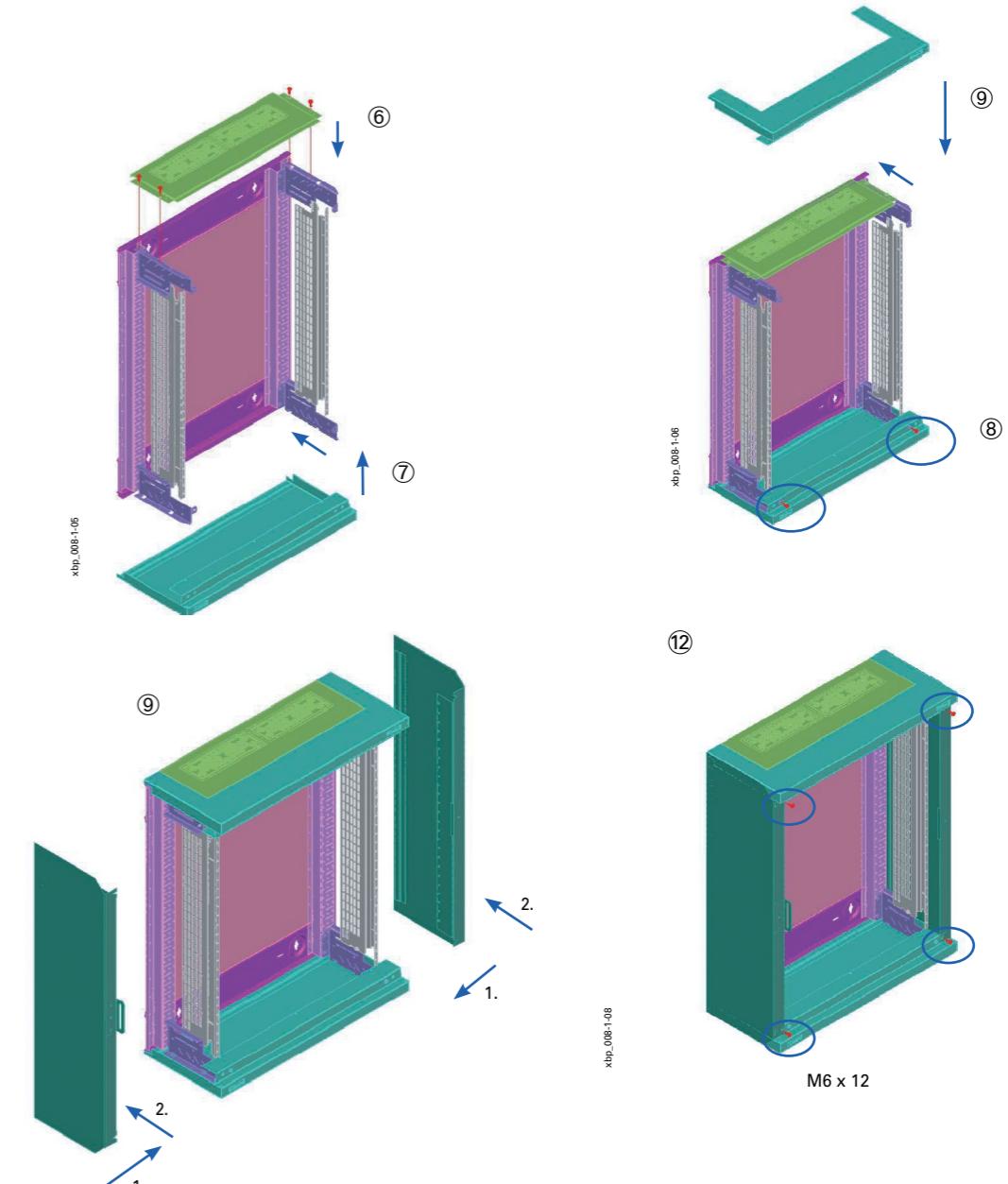


Board for installation of mounting frame PSN-MSW**Mounting process**

1. Mounting of towers BPZ-CTS-L onto base frame BP-MF. Towers BPZ-CTS-L are delivered as part of the frame BP-MF.
2. Pre-screwing of a screw which creates bottom hitch for frame PSN-MSW.
3. Placing of the frame from side walls PSN-MSW on bottom hitch
4. Tipping of the side walls PSN-MSW to correct position
5. Fixing of the frame with top hitch screw

**Board for installation of mounting frame PSN-MSW**

6. Assembly of cable entry plates BP-FLP onto towers BPZ-CTS-L
7. Assembly of top / bottom panel without cutout (if used)
8. Fixing of top / bottom panel without cutout into towers BPZ-CTS-L by means of screws
9. Addition of cable entry plate with top / bottom panel
10. Fixing of top / bottom panel with cutout into towers BPZ-CTS-L by means of screws
11. Assembly of side panels BPZ-SP-MSW
12. Fixing of side panels BPZ-SP-MSW

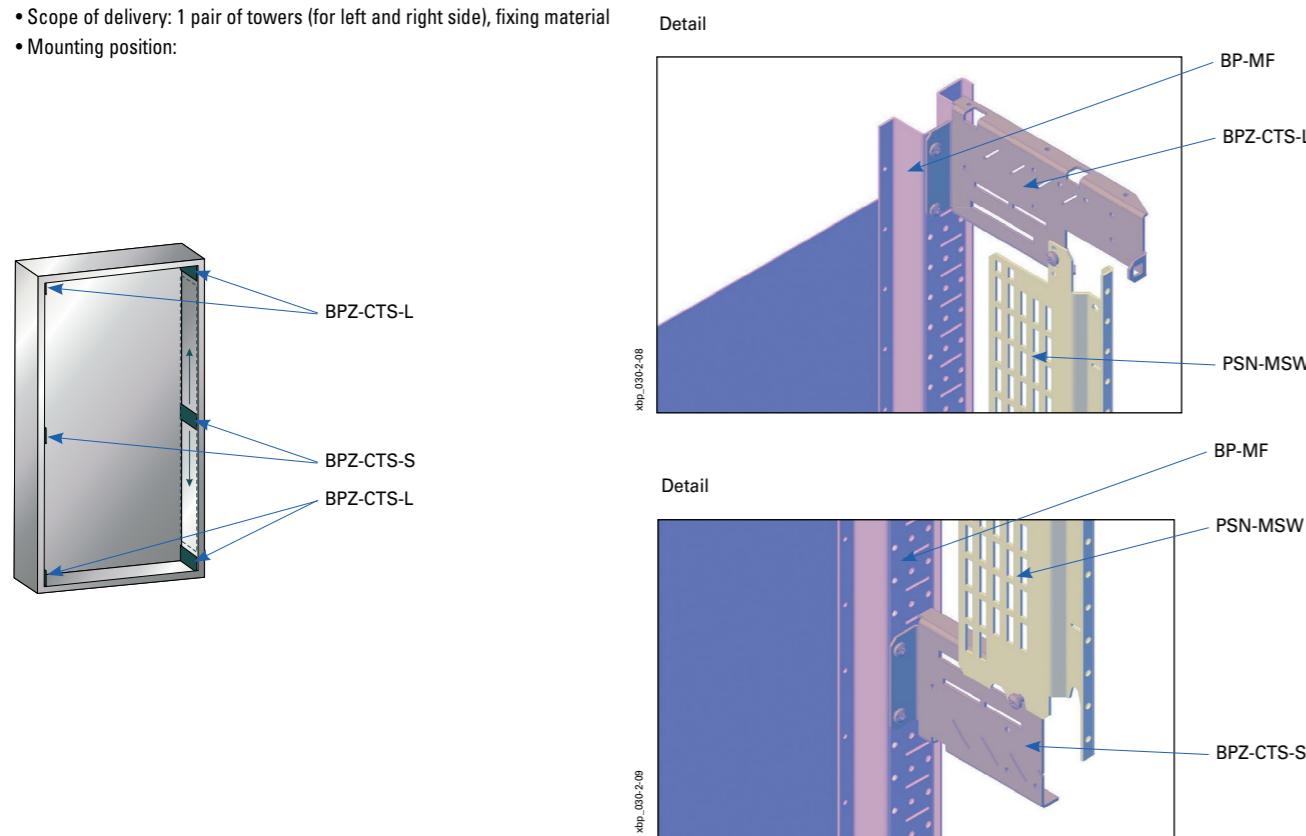


Front Plate Support, PSN-FPS

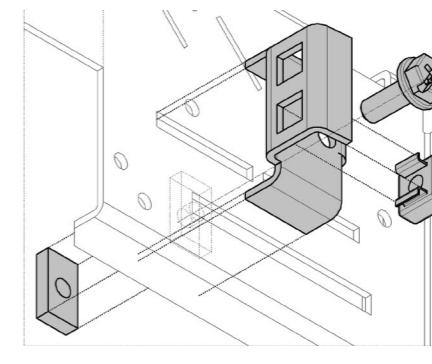
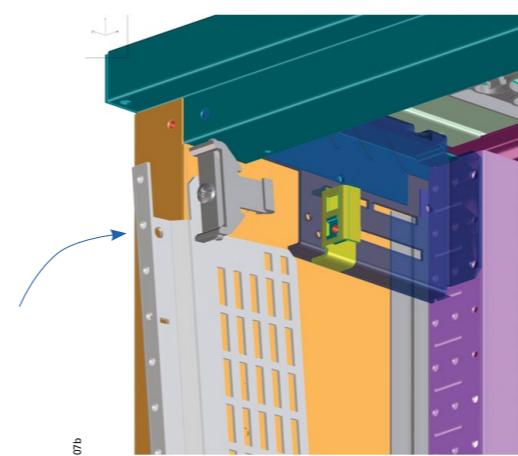
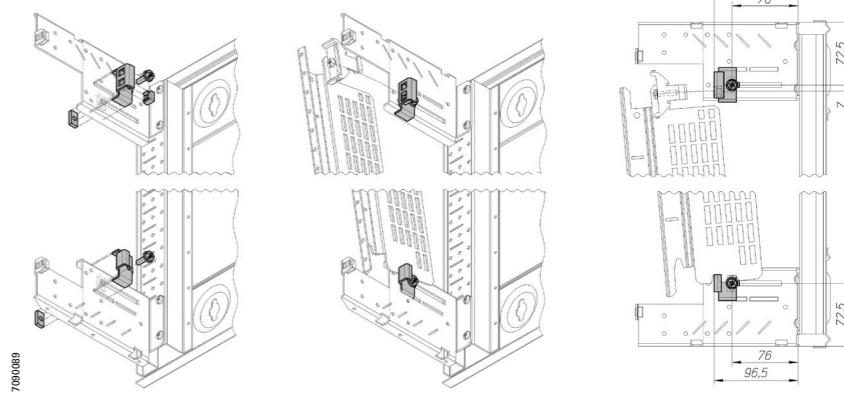
- For fixing the front plates
- Mounting of front plates without using PSN-MSW
- Enables combination of an installation section with and without MSW in one board
- For mounting of floor standing distribution boards flexible assembly BP-F-...F
- Material: 2 mm sheet steel, galvanized
- Scope of delivery: 1 Pair of front plate supports, fixing material

Corner tower set, BPZ-CTS

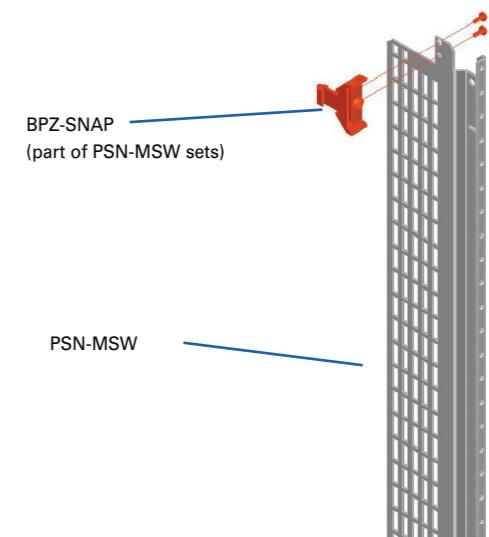
- Mounted directly on the system perforation pattern of the base frame BP-MF
- For fixing the terminal support bar BPZ-TSB
- For fixing the mounting side walls PSN-MSW
- If towers BPZ-CTS-S are mounted for short side walls PSN-MSW, it is necessary to pay attention to correct orientation of the towers. The square cutout in tower bend has to be on the other side to PSN-MSW.
- Scope of delivery: 1 pair of towers (for left and right side), fixing material
- Mounting position:

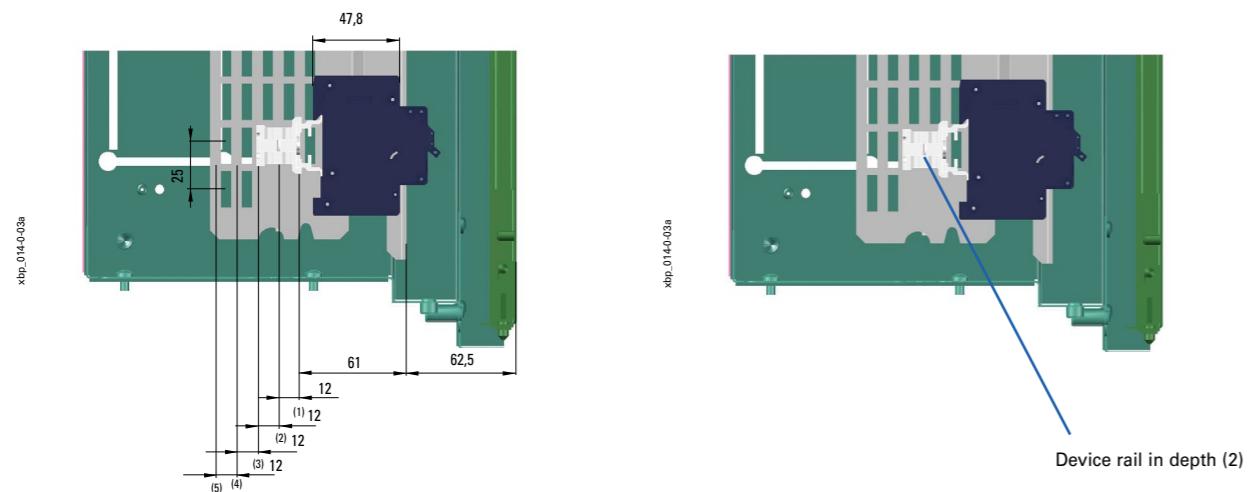
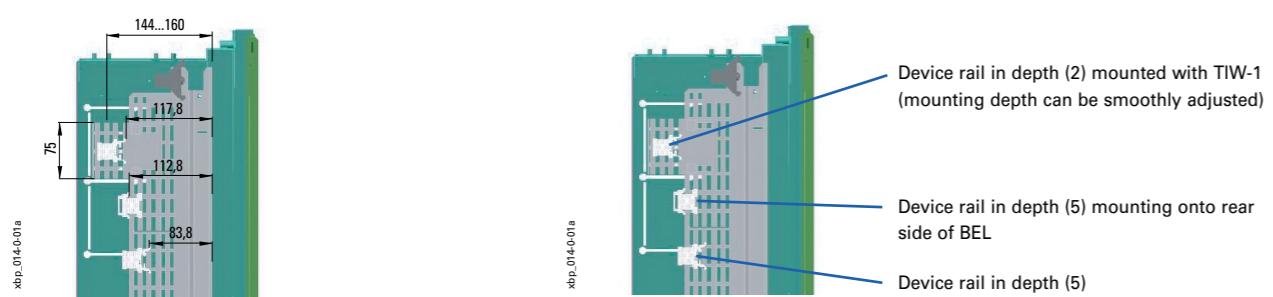
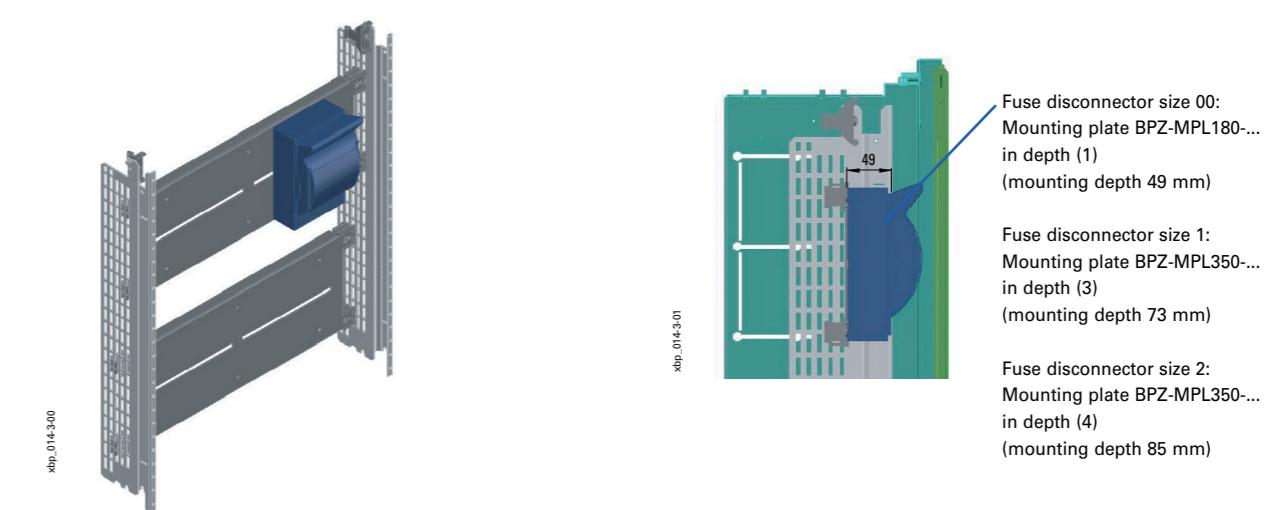
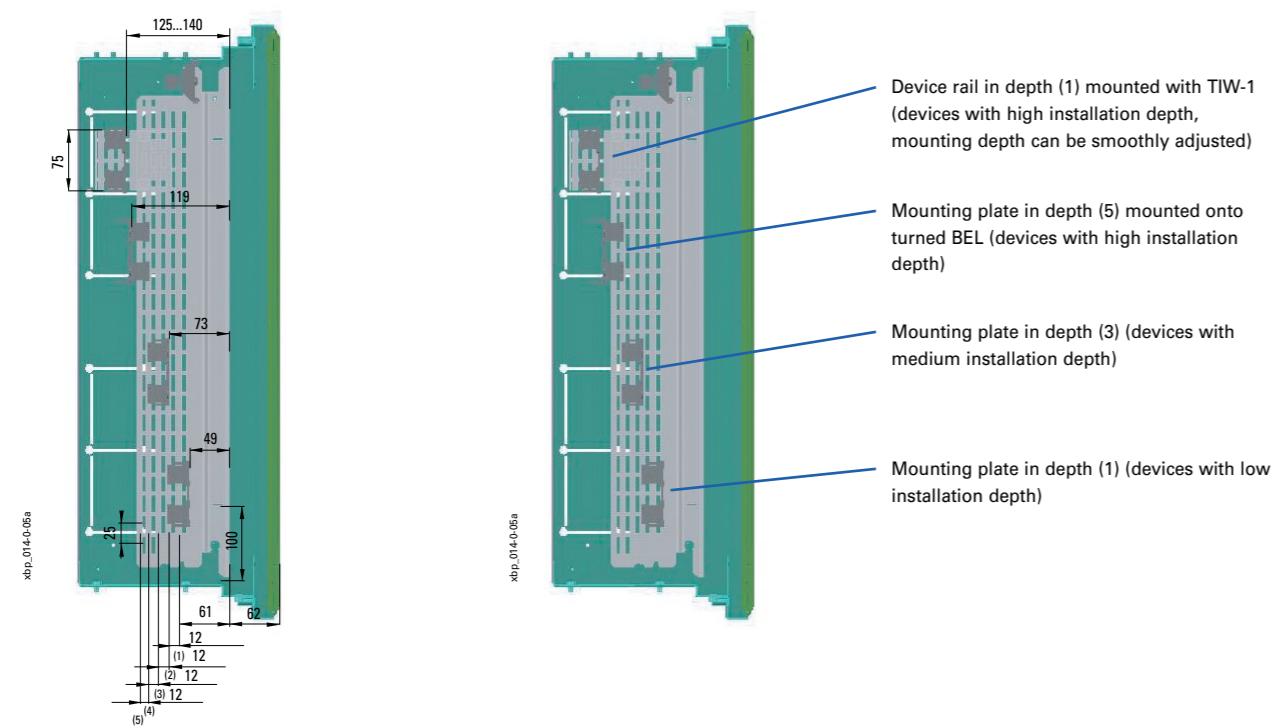
**Set, BPZ-SNAP-MSW-CTS**

- Designed for comfort inserting and fixing PSN-MSW with use BPZ-SNAP to board
- Used for surface mounted boards BP-O, BPM-O and floor-standing boards BP-F, BPM-F
- Set contains top and bottom parts

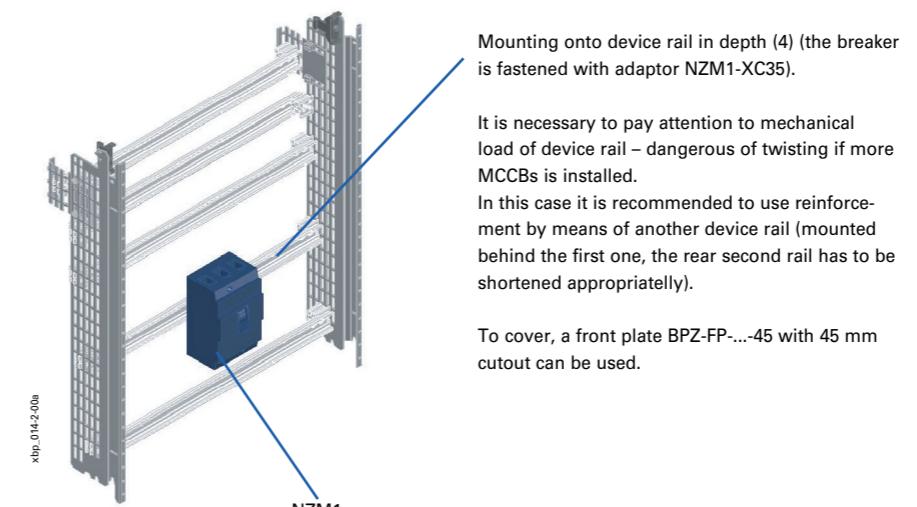
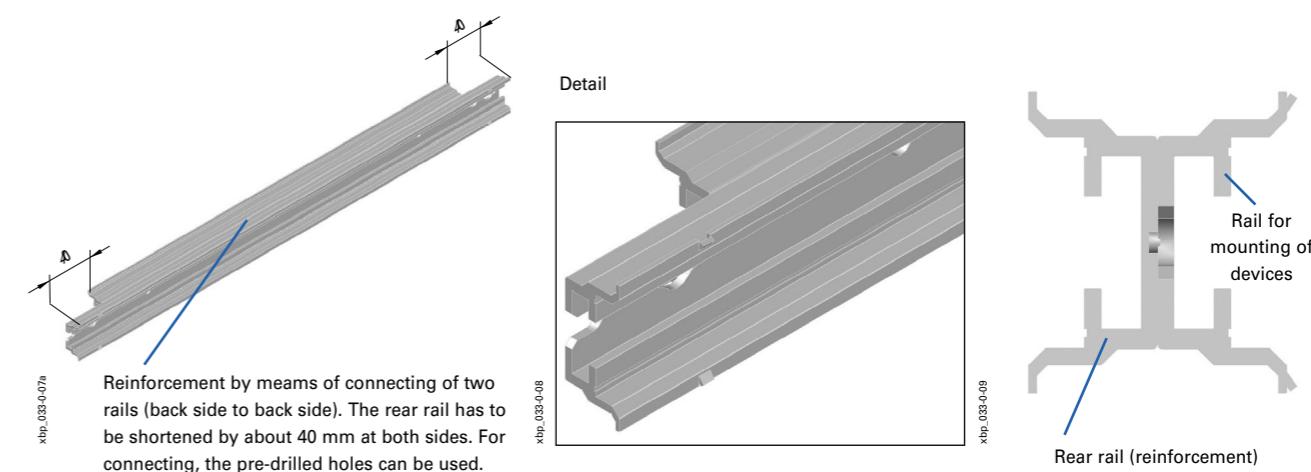
**Mounting side walls, PSN-MSW**

- Designed for comfort inserting and fixing PSN-MSW with use BPZ-SNAP to board
- Mounting side walls for flush mounting boards
- Can be used also for surface mounting or floor standing boards for comfortable mounting of installation devices
- Enables mounting of inside equipment including electrical connection outside the board
- Material: Sheet steel, zinc-coated
- Scope of delivery: 2 mounting side walls



Mounting of devices with a possibility of controlling**Mounting of devices under frontplate (e.g. contactors without a possibility of manual controlling)****Mounting of devices onto mounting plate****Mounting of moulded case circuit breakers NZM1**

- Mounting sets BPZ-NZM...-MSW are recommended for mounting of single breakers NZM1 and NZM2 into flush mounting boards

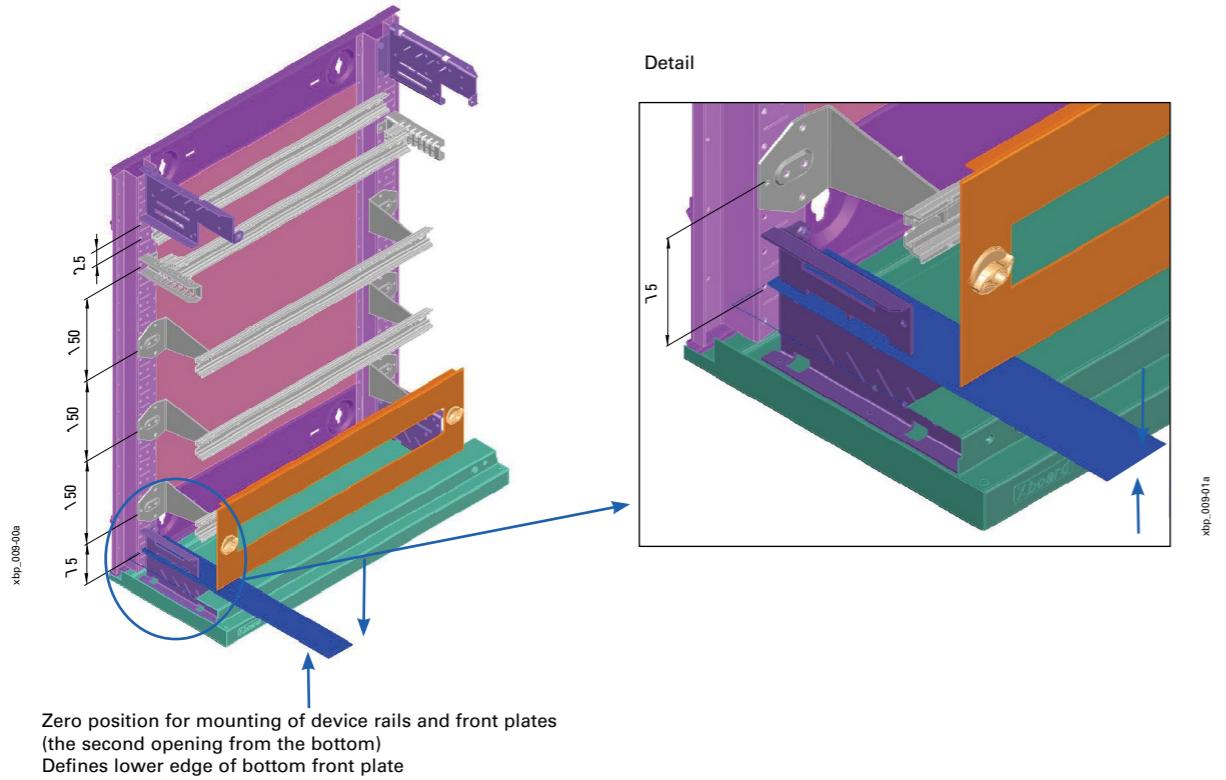
**Reinforcement of the device rail**

xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (flat-pack), Technical data

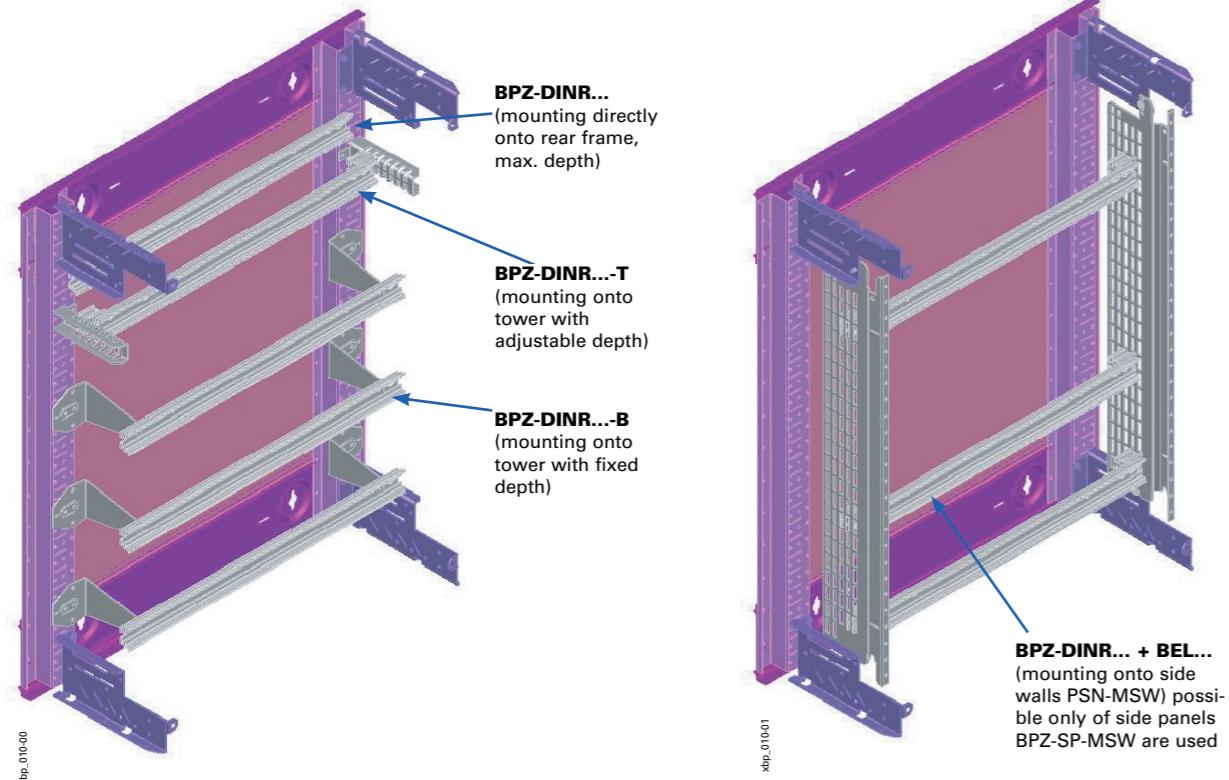
Zero position for mounting of front plates

- Defines lower edge of the first bottom front plate - first step of assembly
- For standard front plate height 150 mm, the center of the first bottom device rail is located 75 mm above the zero position

**Mounting of device rails**

I. Rear mounting onto base frame

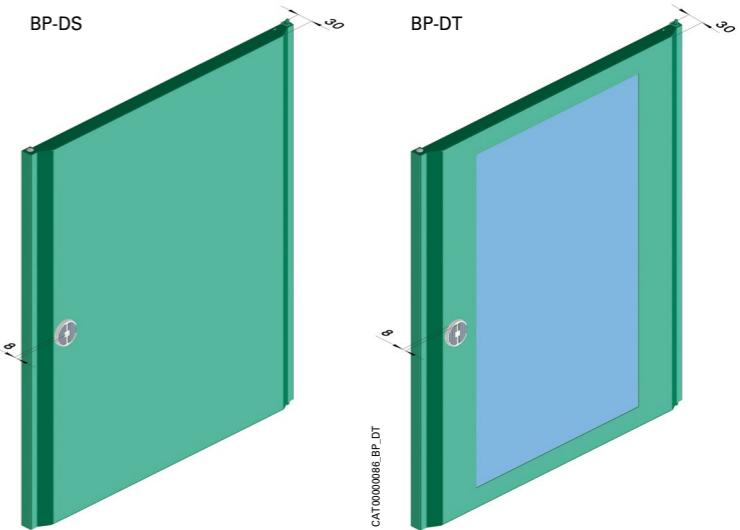
II. Mounting onto side walls PSN-MSW

**xEnergy Basic****xEnergy Basic****xEnergy Distribution Boards**

Surface-mounted distribution board BP-O-..., IP30 (flat-pack), Technical data

Sheet steel doors, BP-DS

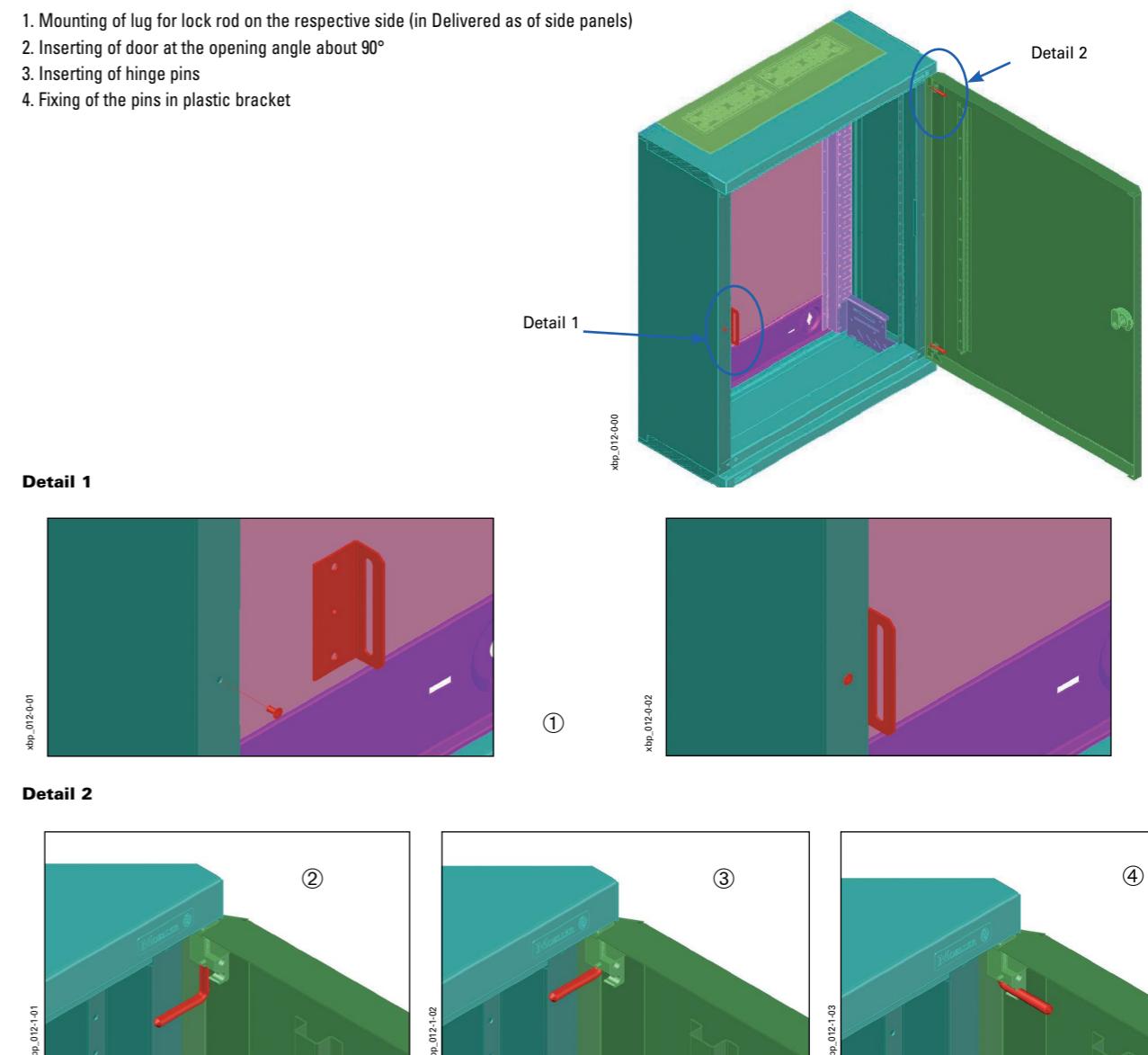
- Front-mounted
- Quick mounting and removing of the door
- Right or left hinged
- Opening angle 167°
- 1-point lock through rotary lock, 3-point lock with clip down handle
- Material: sheet steel, powder-coated, RAL 7035 thickness 1 mm
- Delivered as: 1 door, set for earth connection

**Transparent doors (sheet steel), BP-DT**

- Material: 2 mm of plexiglas

Mounting of door BP-DS**Mounting process:**

1. Mounting of lug for lock rod on the respective side (in Delivered as of side panels)
2. Inserting of door at the opening angle about 90°
3. Inserting of hinge pins
4. Fixing of the pins in plastic bracket

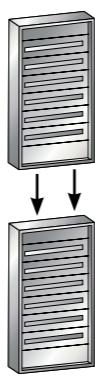


xEnergy Distribution Boards

Surface-mounted distribution board BP-O-..., IP30 (flat-pack), Technical data

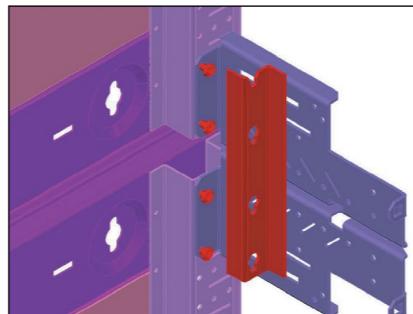
Horizontal/middle add-on connection element, BP-MFL

- For mounting distribution boards one on top of the other
- For surface mounting boards IP30
- Possible to combine with BP-MSL for cross combination of boards
- Material: sheet steel, powder-coated, RAL 7035
- Delivered as: 1 horizontal/middle add-on connection element, 2 mounting elements, fixing material

**Mounting process:**

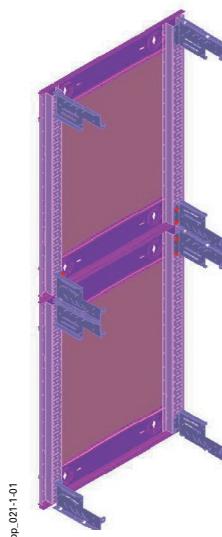
- For a pair of boards, only one set of top / bottom panels is used

Detail

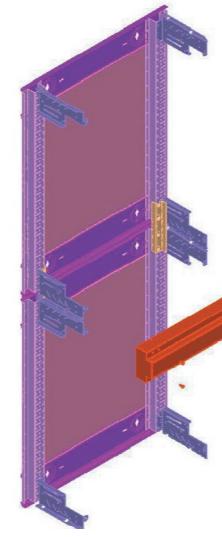


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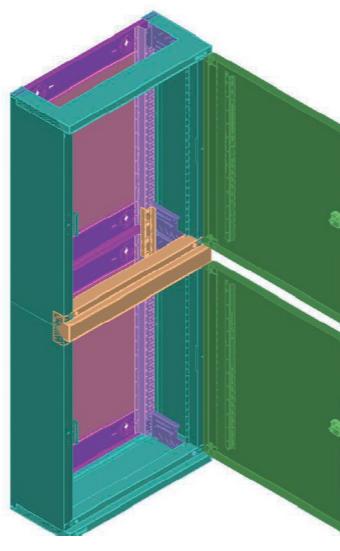
1. Placing of base frames BP-MF to correct position
2. Remove of screws of towers BPZ-CTS-L at sides near to boards connection
3. Put of mounting elements on the loosened screws
4. Tightening of fixing screws
5. Assembly of connection element
6. Fixing of connection element
7. Mounting of top and bottom panels BP-TBP
8. Mounting of side walls BP-SP, BPZ-SP-MSW
9. Mounting of doors BP-DS



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xbp_021-1-07



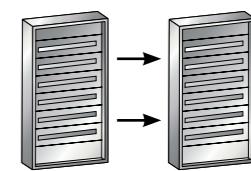
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xEnergy Basic**xEnergy Basic****xEnergy Distribution Boards**

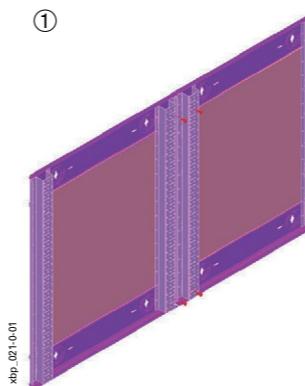
Surface-mounted distribution board BP-O-..., IP30 (flat-pack), Technical data

Vertical/middle add-on connection element, BP-MSL

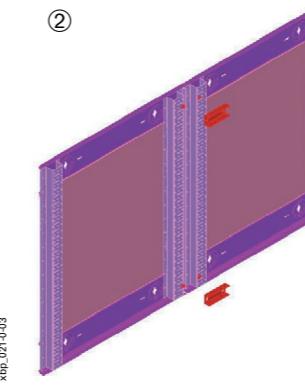
- For mounting distribution boards one next to the other (in parallel)
- Possible to combine with BP-MFL for cross combination of boards
- Material: sheet steel, powder-coated, RAL 7035
- Delivered as: 1 vertical/middle add-on connection element, 2 mounting elements, fixing material

**Mounting process:**

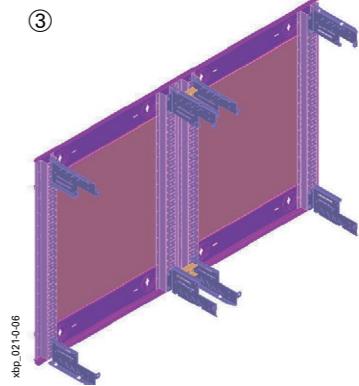
- The process is identical for both BP-MSL and BP-MSL
 - For a pair of boards, only one set of side panels BP-SP is used
1. Placing of base frames BP-MF to correct position, pre-screwing of fixing screws
 2. Put of mounting elements and fixing of screws
 3. Mounting of towers BPZ-CTS-L onto base frame BP-MF. Towers BPZ-CTS-L are delivered as of the frame BP-MF.
- For base frame assembly 1 pair PSN-FPS to be ordered separately
4. Mounting of top and bottom panels BP-TBP and pre-screwing of add-on connection element screws. Assembly of add-on element
 5. Connected pair of boards. Mounting of lugs for lock rods
 6. Mounting of doors
- To preserve maximum opening angle, both boards have to have opposite direction of door opening



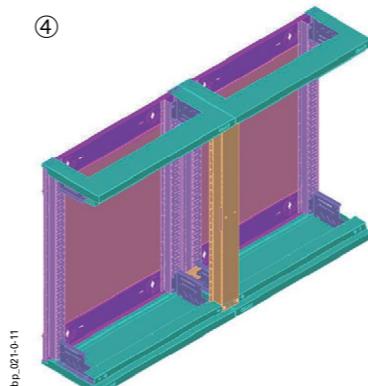
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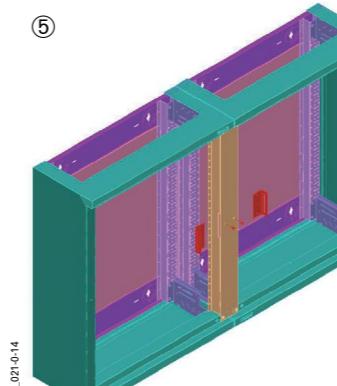
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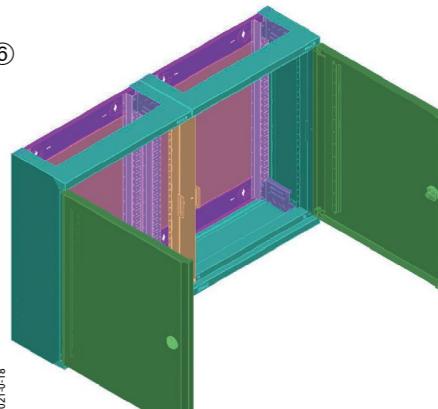
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xbp_021-0-11



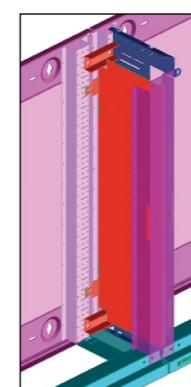
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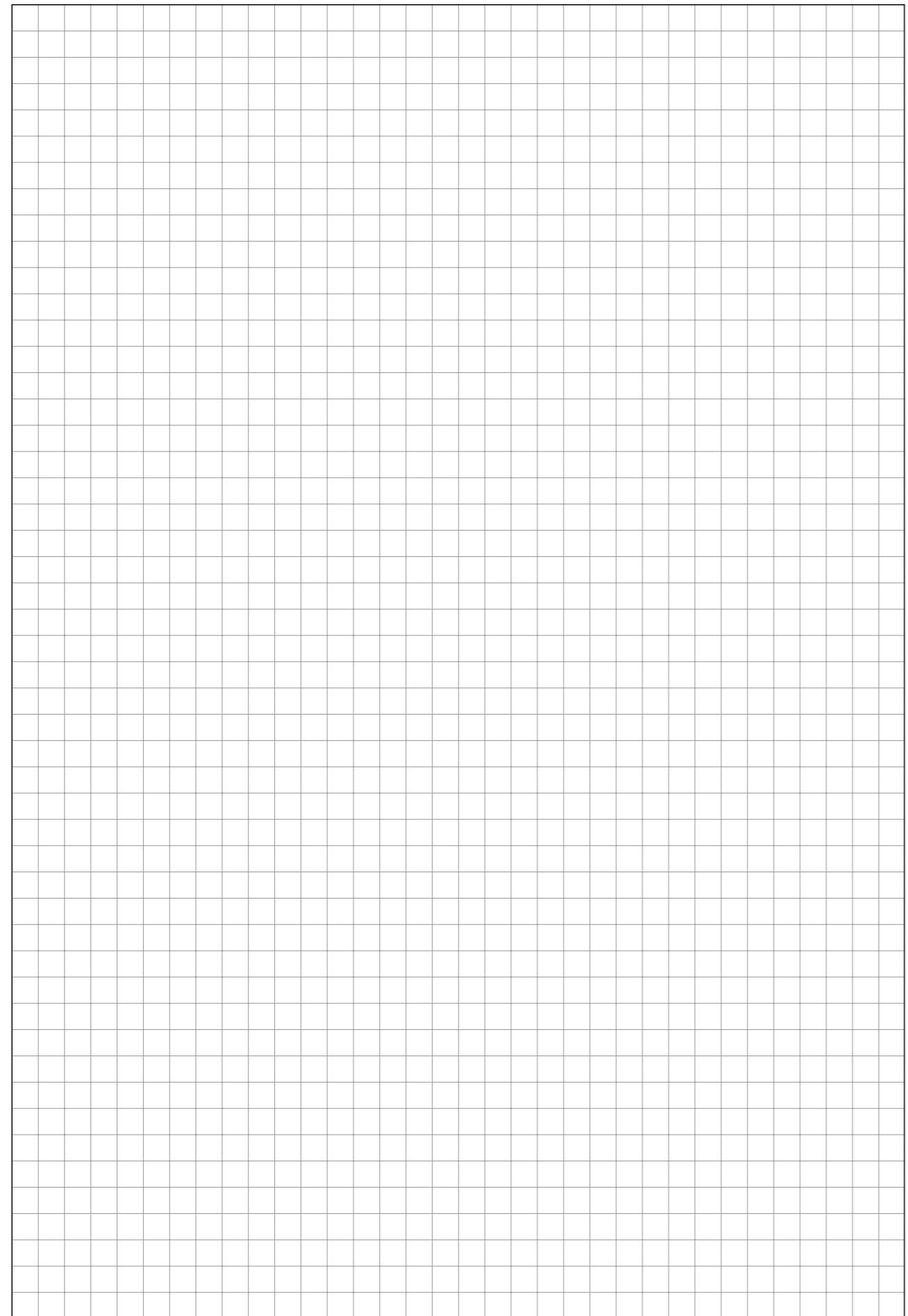
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Separation panel, BPZ-ASB

- Internal vertical separation between two sections
- Fixing on the rear frame
- Painted, RAL 7035 grey

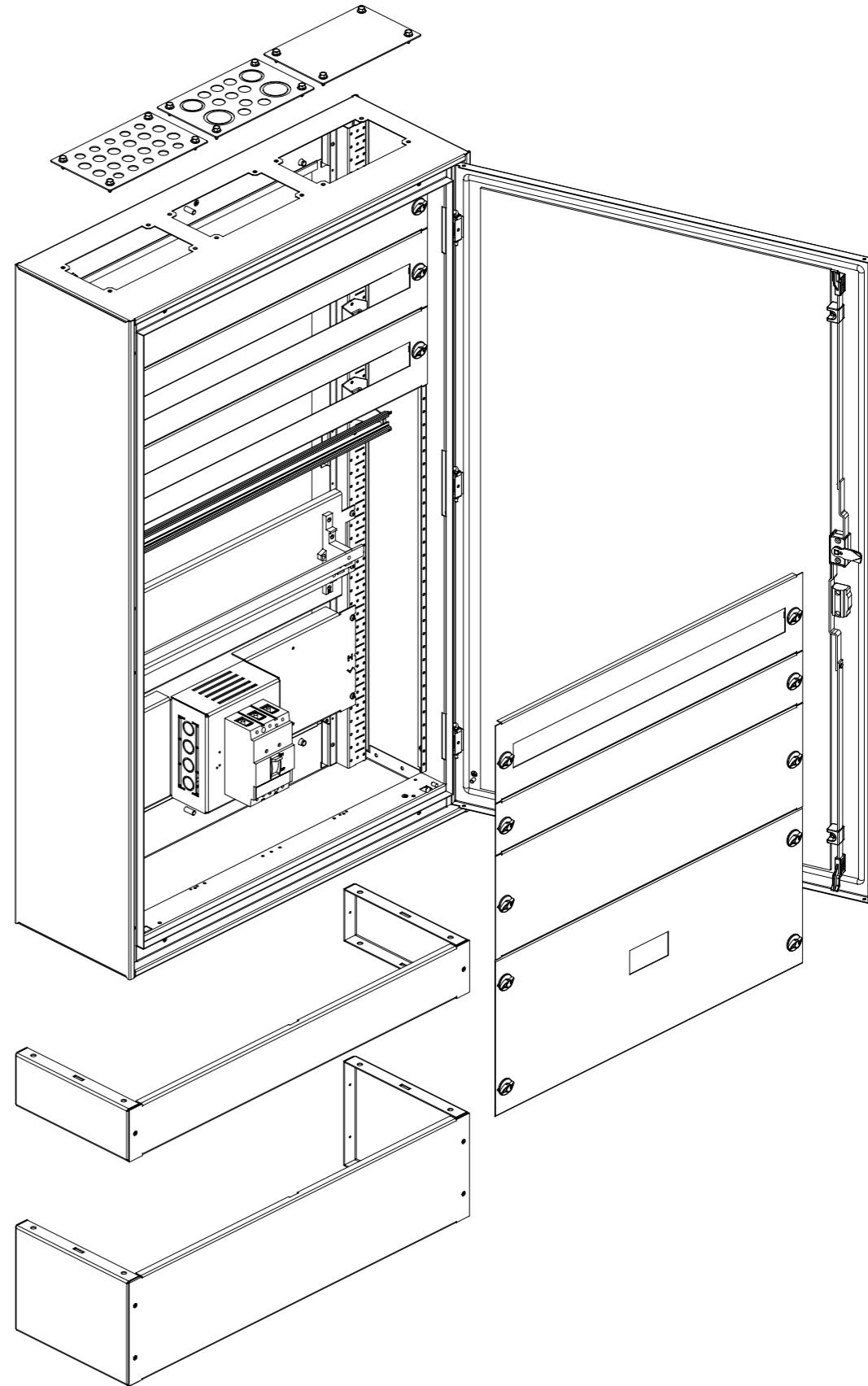


03



System Overview

BPM-O-..., IP55



xEnergy Distribution Boards

Surface-mounted distribution board BPM-O-..., IP55



Width [mm]	Height [mm]	Height int. [mm]	Pre-assembled configuration/ individual installation/ prepared for F3A-flanges on top door with two-way key bit BPZ-LOCK/DBIT3	Pre-assembled configuration/ individual installation/ prepared for F3A-flanges on top door with rotary lever BPZ-SH-L(1P)	Pre-assembled configuration / Individual installation / Prepared for F3A-flanges on top / Without door
			RAL 7035 grey empty	RAL 9016 white empty	RAL 7035 grey empty
			Cat No per unit unit = 1 pc.	Cat No per unit unit = 1 pc.	Cat No per unit unit = 1 pc.

BPM-O-..., IP55 - fully assembled

400 (13MU/row)	460	350	BPM-O-400/4 110837	BPM-O-400/4-W 111057	BPM-O-400/4-P 116653	BPM-O-400/4-P-W 300876	-
	760	650	BPM-O-400/7 110838	BPM-O-400/7-W 111058	BPM-O-400/7-P 116654	BPM-O-400/7-P-W 300877	-
	1060	950	BPM-O-400/10 110839	BPM-O-400/10-W 111059	BPM-O-400/10-P 116655	BPM-O-400/10-P-W 300878	-
	1260	1150	BPM-O-400/12 111020	BPM-O-400/12-W 111060	BPM-O-400/12-P 116656	BPM-O-400/12-P-W 300879	-
	1560	1450	BPM-O-400/15 111021	-	BPM-O-400/15-P 116657	BPM-O-400/15-P-W 300880	-
600 (24MU/row)	460	350	BPM-O-600/4 111022	BPM-O-600/4-W 111062	BPM-O-600/4-P 116658	BPM-O-600/4-P-W 300881	-
	760	650	BPM-O-600/7 111023	BPM-O-600/7-W 111063	BPM-O-600/7-P 116659	BPM-O-600/7-P-W 300882	BPM-O-600/7-F 174358
	1060	950	BPM-O-600/10 111024	BPM-O-600/10-W 111064	BPM-O-600/10-P 116660	BPM-O-600/10-P-W 300883	BPM-O-600/10-F 174359
	1260	1150	BPM-O-600/12 111025	BPM-O-600/12-W 111065	BPM-O-600/12-P 116661	BPM-O-600/12-P-W 300884	BPM-O-600/12-F 174360
	1560	1450	BPM-O-600/15 111026	-	BPM-O-600/15-P 116662	BPM-O-600/15-P-W 300885	BPM-O-600/15-F 174361
800 (35MU/row)	460	350	BPM-O-800/4 111027	BPM-O-800/4-W 111067	BPM-O-800/4-P 116663	BPM-O-800/4-P-W 300886	-
	760	650	BPM-O-800/7 111028	BPM-O-800/7-W 111068	BPM-O-800/7-P 116664	BPM-O-800/7-P-W 300887	-
	1060	950	BPM-O-800/10 111029	BPM-O-800/10-W 111069	BPM-O-800/10-P 116665	BPM-O-800/10-P-W 300888	BPM-O-800/10-F 174364
	1260	1150	BPM-O-800/12 111030	BPM-O-800/12-W 111070	BPM-O-800/12-P 116666	BPM-O-800/12-P-W 300889	BPM-O-800/12-F 174365
	1560	1450	BPM-O-800/15 111031	-	BPM-O-800/15-P 116667	BPM-O-800/15-P-W 300890	BPM-O-800/15-F 174366
1000 (46MU/row)	1060	950	BPM-O-1000/10 111032	BPM-O-1000/10-W 111072	BPM-O-1000/10-P 116668	BPM-O-1000/10-P-W 300891	BPM-O-1000/10-F 193229
	1260	1150	BPM-O-1000/12 111033	BPM-O-1000/12-W 111073	BPM-O-1000/12-P 116669	BPM-O-1000/12-P-W 300892	BPM-O-1000/12-F 193230
	1560	1450	BPM-O-1000/15 111034	-	BPM-O-1000/15-P 116670	BPM-O-1000/15-P-W 300893	BPM-O-1000/15-F 174369
1200 (57MU/row)	1260	1150	BPM-O-1200/12 111035	BPM-O-1200/12-W 111075	BPM-O-1200/12-P 116671	BPM-O-1200/12-P-W 300894	BPM-O-1200/12-F 193231
	1560	1450	BPM-O-1200/15 111036	-	BPM-O-1200/15-P 116672	BPM-O-1200/15-P-W 300895	BPM-O-1200/15-F 193232

xEnergy Basic
Sheet 1/3xEnergy Basic
Sheet 2/3

xEnergy Distribution Boards

Surface-mounted distribution board BPM-O-..., IP55



Blatt metal door / Clip-down handle	Blatt metal door (transparent) / Plinth 100 mm / Side parts 1 pair / Front cover	Installation back frame / Frontplate support	MSW installation / Mounting Side Wall (MSW) with standard depth	MSW installation / Mounting Side Wall (MSW) with extended depth
RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 9016 white	
Cat No per unit unit = 1 pc.	Cat No per unit unit = 1 pc.	Cat No per unit unit = 1 pc.	Cat No per unit unit = 1 pc.	Cat No per unit unit = 1 pc.

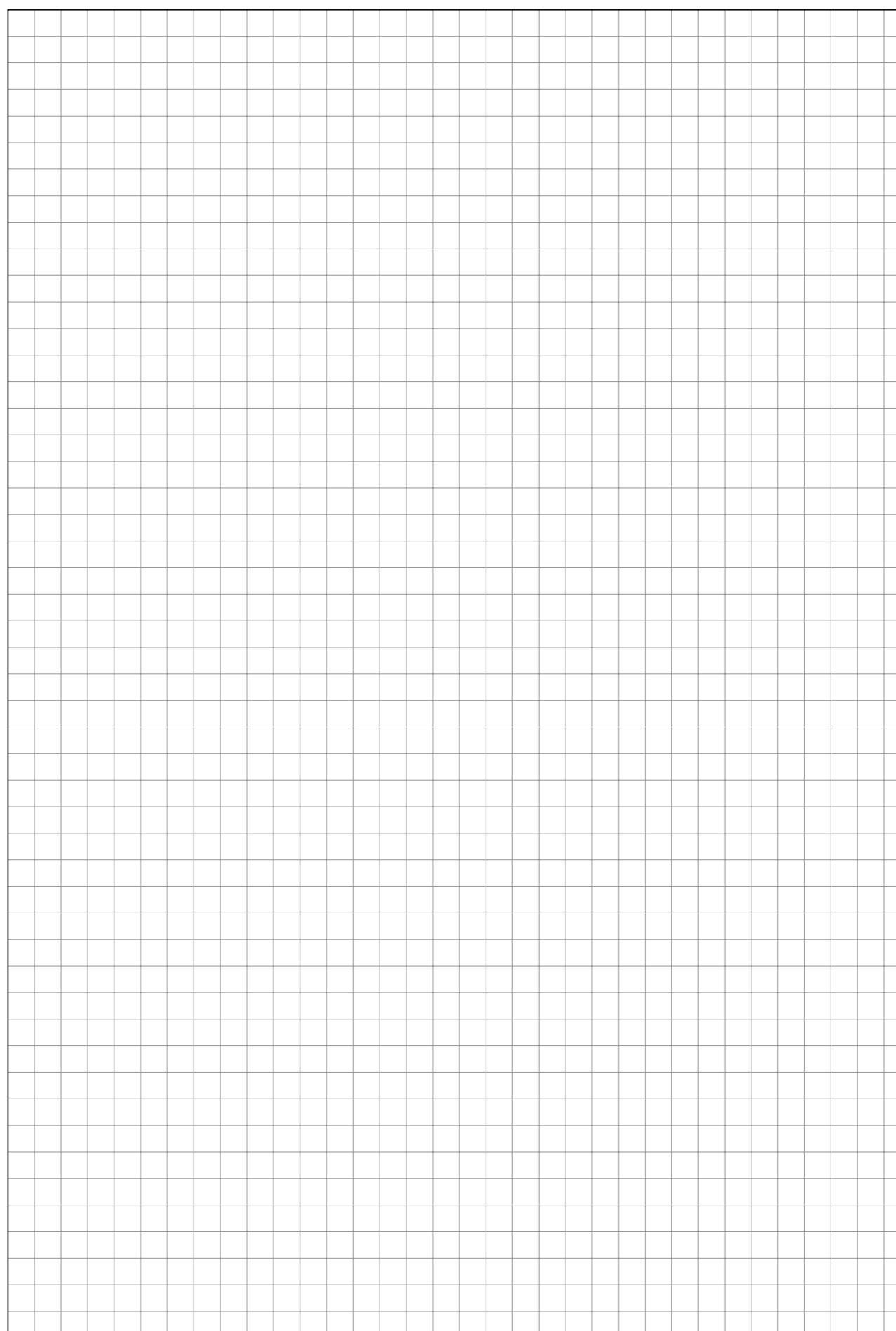
-	BPZ-DMT-400/4-P 173575	BPZ-SS-1/270 119167	BPZ-SS-1/270-W 119173	PSN-FPS/4 EP-502142	PSN-MSW/4 EP-502135	PSN-MSW/4-EXT EP-502575	
-	BPZ-DMT-400/7-P 173576	BPZ-FS-400/1 293493	BPZ-FS-400/1-W 293494	PSN-FPS/7 EP-502143	PSN-MSW/7 EP-502136	PSN-MSW/7-EXT EP-502576	
-	BPZ-DMT-400/10-P 173577			PSN-FPS/10 EP-502144	PSN-MSW/10 EP-502137	PSN-MSW/10-EXT EP-502577	
-	BPZ-DMT-400/12-P 173578			PSN-FPS/12 EP-502145	PSN-MSW/12 EP-502138	PSN-MSW/12-EXT EP-502578	
-	BPZ-DMT-400/15-P 173579			PSN-FPS/15 EP-502146	PSN-MSW/15 EP-502139	PSN-MSW/15-EXT EP-502579	
-	BPZ-DMT-600/4-P 173580	BPZ-SS-1/270 119167	BPZ-SS-1/270-W 119173	PSN-FPS/4 EP-502142	PSN-MSW/4 EP-502135	PSN-MSW/4-EXT EP-502575	
-	BPZ-DMS-600/7-P 174372	BPZ-DMT-600/7-P 173581	BPZ-FS-600/1 293497	BPZ-FS-600/1-W 293498	PSN-FPS/7 EP-502143	PSN-MSW/7 EP-502136	PSN-MSW/7-EXT EP-502576
-	BPZ-DMS-600/10-P 174373	BPZ-DMT-600/10-P 173582		PSN-FPS/10 EP-502144	PSN-MSW/10 EP-502137	PSN-MSW/10-EXT EP-502577	
-	BPZ-DMS-600/12-P 174374	BPZ-DMT-600/12-P 173583		PSN-FPS/12 EP-502145	PSN-MSW/12 EP-502138	PSN-MSW/12-EXT EP-502578	
-	BPZ-DMS-600/15-P 174341	BPZ-DMT-600/15-P 173584		PSN-FPS/15 EP-502146	PSN-MSW/15 EP-502139	PSN-MSW/15-EXT EP-502579	
-	BPZ-DMT-800/4-P 173587	BPZ-SS-1/270 119167	BPZ-SS-1/270-W 119173	EP-502146 EP-502142	PSN-MSW/4 EP-502135	PSN-MSW/4-EXT EP-502575	
-	BPZ-DMT-800/7-P 173588	BPZ-FS-800/1 293501	BPZ-FS-800/1-W 293502	PSN-FPS/7 EP-502143	PSN-MSW/7 EP-502136	PSN-MSW/7-EXT EP-502576	
-	BPZ-DMS-800/10-P 174344	BPZ-DMT-800/10-P 173589		PSN-FPS/10 EP-502144	PSN-MSW/10 EP-502137	PSN-MSW/10-EXT EP-502577	
-	BPZ-DMS-800/12-P 174345	BPZ-DMT-800/12-P 173590		PSN-FPS/12 EP-502145	PSN-MSW/12 EP-502138	PSN-MSW/12-EXT EP-502578	
-	BPZ-DMS-800/15-P 174346	BPZ-DMT-800/15-P 173591		PSN-FPS/15 EP-502146	PSN-MSW/15 EP-502139	<b	



Width [mm]	Height [mm]	Height int. [mm]	Plinth 100 mm / Side parts 1 pair open-open for cable guiding between the sections / Front cover	Plinth 200 mm / Side parts 1 pair / Front cover	Internal cable duct as complete kit for shared composition incl. mounting pillars, compartment door and protective cover
			RAL 7035 grey	RAL 7035 grey	RAL 7035 grey Compartment width 200 mm Compartment width 400 mm
			Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc. Cat. No. per unit unit = 1 pc.

BPM-O-..., IP55 - fully assembled

400 (13MU/row)	460	350	BPZ-SS-1/270/SET/00 BPZ-SS-2/270 174352	BPZ-SS-2/270-W 119171	-
	760	650	BPZ-FS-400/1 293493	BPZ-FS-400/2 293495	BPZ-FS-400/2 293495
	1060	950			-
	1260	1150			-
	1560	1450			-
600 (24MU/row)	460	350	BPZ-SS-1/270/SET/00 BPZ-SS-2/270 174352	BPZ-SS-2/270-W 119171	-
	760	650	BPZ-FS-600/1 293497	BPZ-FS-600/2 293499	BPZ-FS-600/2 293499
	1060	950			-
	1260	1150			-
	1560	1450			-
800 (35MU/row)	460	350	BPZ-SS-1/270/SET/00 BPZ-SS-2/270 174352	BPZ-SS-2/270-W 119171	-
	760	650	BPZ-FS-800/1 293501	BPZ-FS-800/2 293503	BPZ-FS-800/2 293503
	1060	950			-
	1260	1150			-
	1560	1450			PSN-ICD-200/15-BL EP-502492
1000 (46MU/row)	1060	950	BPZ-SS-1/270/SET/00 BPZ-SS-1/270 174352	BPZ-SS-2/270-W 119167	-
	1260	1150	BPZ-FS-1000/1 293505	BPZ-FS-1000/2 293507	BPZ-FS-1000/2 293507
	1560	1450			PSN-ICD-400/15-BL EP-502495
1200 (57MU/row)	1260	1150	BPZ-SS-1/270/SET/00 BPZ-SS-1/270 174352	BPZ-SS-2/270-W 119175	-
	1560	1450	BPZ-FS-1200/1 293509	BPZ-FS-1200/2 293511	BPZ-FS-1200/2 293511



Description**BPM-O..., IP55, enclosure depth 270 mm**

- Complete cabinets prepared for ProfiSNAP installation system
- Degree of protection IP55
- Impact resistance IK10
- Protection class I (protective earth)
- Cable entry prepared for F3A flange
- The enclosure can be rotated by 180°
- Quick and easy change of the hinge direction, door opening angle 100°
- Two-way key bit or swing handle
- Direct wall mounting possible, wall-fixing brackets optionally included in the accessories
- Enclosure made from powder-coated sheet steel, RAL 7035 / RAL 9016
- Variable interior installation either with "Mounting base frame" or "Mounting side panel" (MSW)

Technical data**BPM-O...****Electrical**

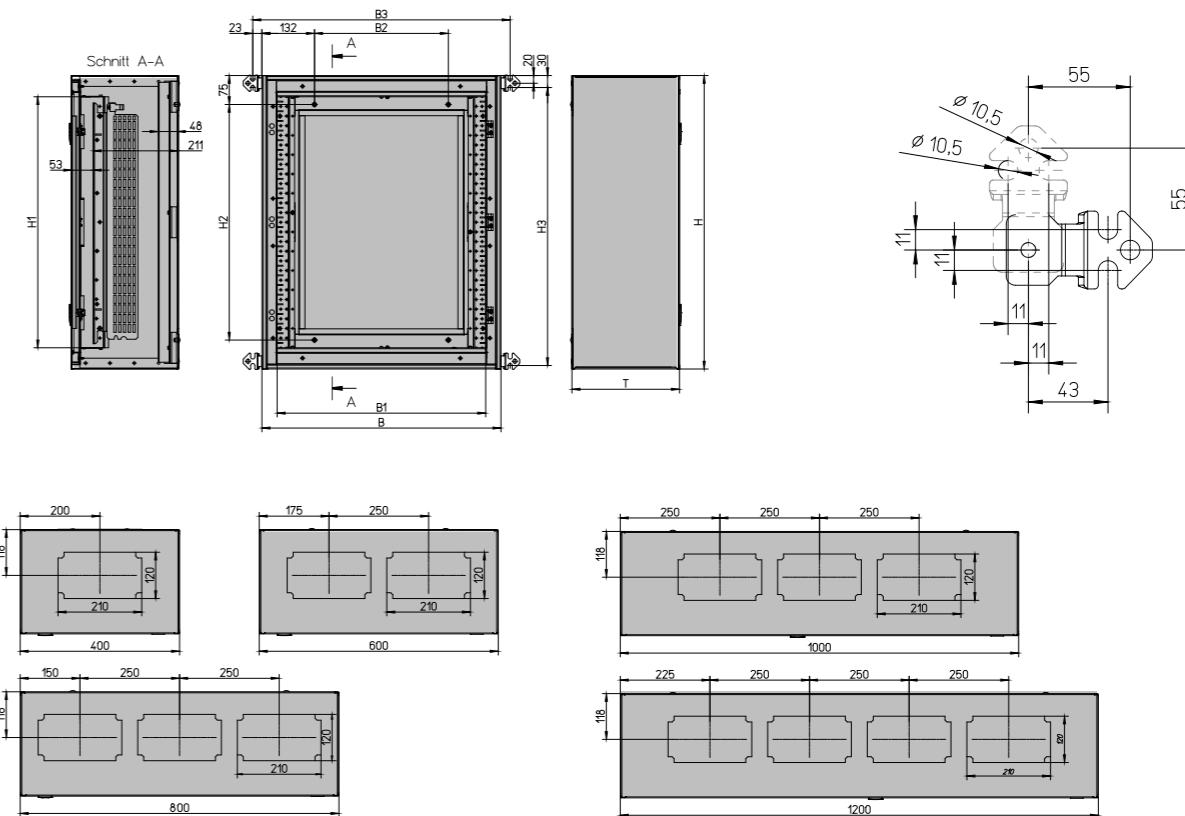
Type conforms to	IEC/EN 62208
Protection class	I (protective earth)
Degree of protection	IP55 (closed version with door/flansche) IP2XC (open door, the installation level is properly protected with EP covers)
Impact resistance	IK10
Rated operational voltage	415 VAC / 50 Hz
Rated current	Max. 630 A (depending on the type of incoming circuit breaker or the busbar system being used)
Earthing concept for the enclosure	
Main earthing	By means of M8 welding bolts
Door earthing	By means of M6 welding bolts

The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1.

For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35° C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc.to IEC/TR 60890).

Mechanical

Enclosure	Excellent stability thanks to the welded construction
Material	Sheet steel 1.25 mm, phosphated and polyester powder coated (structured) with corrosion protection
Colour	Traffic white, RAL 9016 / Light grey RAL 7035
Door	With encircling foamed sealing, hinges on the inside, door opening angle ~100° Doors with transparent window individually configurable, hinged either left or right Width 1000 / 1200 mm in double-wing design
Type	Flexible interior fitting with installation units ProfiSNAP on base frame or „mounting side panel“ (MSW) Mounting base frame: multi-layer construction, installation directly in the enclosure, robust and structured Mounting side panel (MSW): removable mounting insert, external installation, fast and reliable
Locking mechanism	Standard locking with two-way key bit (metal) respectively swing handle (optional lock cylinder as accessory) Three-point locking mechanism from height 1060 mm (one-point respectively two-point at height 460 / 760 mm)
Cable entry	Open, prepared for F3A flanges on one sides (top/bottom)
Ambient condition	Indoor installation (wall mounting) Max. ambient temperature +40° C Min. ambient temperature -5° C
Halogen-free, RoHS	< 1%, yes
Accessories	Wall-fixing brackets for wall mounting, a 100/200 mm base if used as a floor-standing cabinet, Lock cylinder as insert for swing handle, several F3A flanges for cable entry
Delivered as	Complete cabinet prepared for „Mounting base frame“ or „MSW“ (depending on interior fitting all corresponding parts for „Mounting base frame“ respectively „MSW“ have to be ordered separately)

Dimensions (mm)**BPM-O..., IP55, enclosure depth 270 mm**

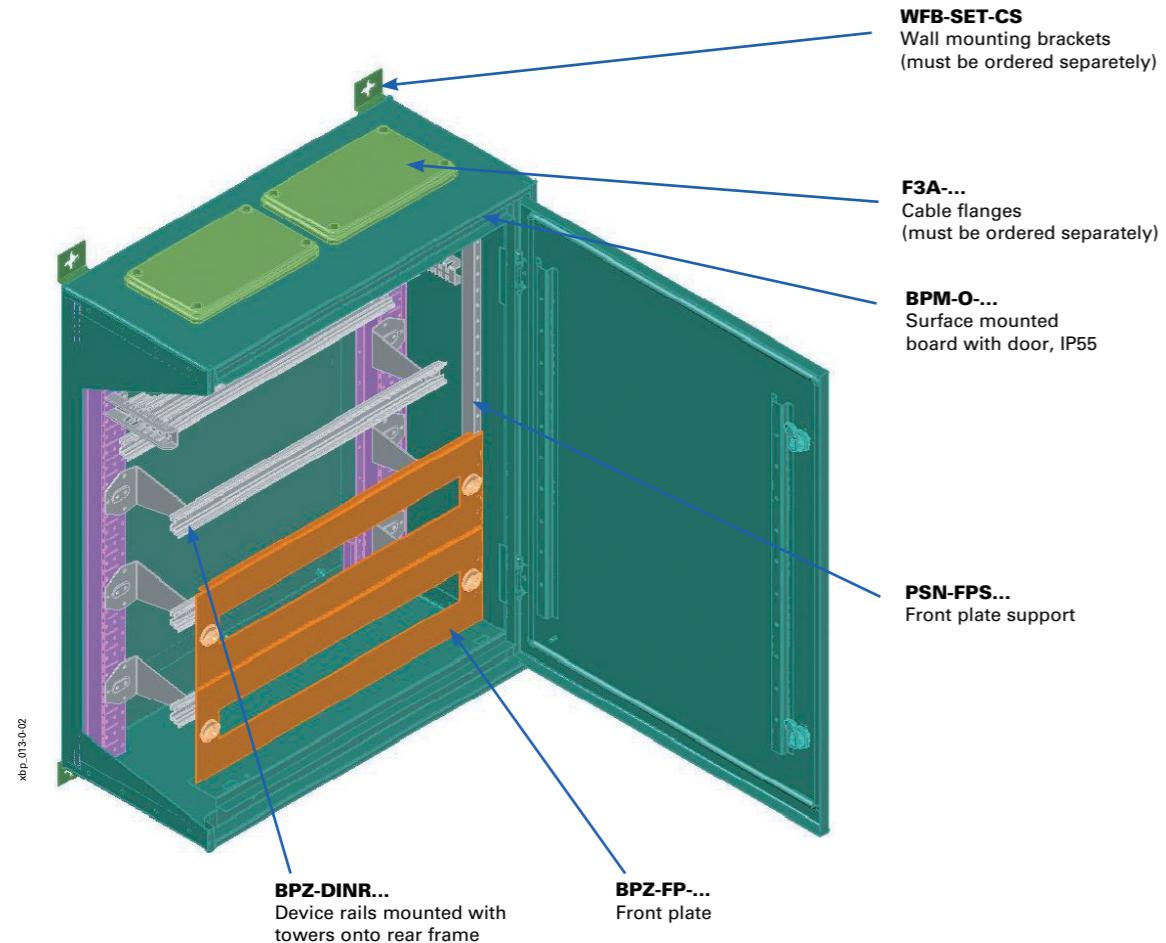
Type	Overall dimensions			Internal dimensions (front plate)		Wall mounting (Enclosure directly)		Wall mounting (via fixing bracket set)		Pv [W]	Pv [W]
	Width B	Height H	Depth T	Width B1	Height H1	Width B2	Height H2	Width B3	Height H3	[W]	[W]
BPM-O-400/4	400	460	270	320	350	136	310	446	420	40	79
BPM-O-400/7	400	760	270	320	650	136	610	446	720	54	109
BPM-O-400/10	400	1060	270	320	950	136	910	446	1020	54	109
BPM-O-400/12	400	1260	270	320	1150	136	1110	446	1220	58	117
BPM-O-400/15	400	1560	270	320	1450	136	1410	446	1520	67	135
BPM-O-600/4	600	460	270	520	350	336	310	646	420	54	108
BPM-O-600/7	600	760	270	520	650	336	610	646	720	71	143
BPM-O-600/10	600	1060	270	520	950	336	910	646	1020	71	143
BPM-O-600/12	600	1260	270	520	1150	336	1110	646	1220	82	165
BPM-O-600/15	600	1560	270	520	1450	336	1410	646	1520	109	219
BPM-O-800/4	800	460	270	720	350	536	310	846	420	68	137
BPM-O-800/7	800	760	270	720	650	536	610	846	720	76	153
BPM-O-800/10	800	1060	270	720	950	536	910	846	1020	98	196
BPM-O-800/12	800	1260	270	720	1150	536	1110	846	1220	122	244
BPM-O-800/15	800	1560	270	720	1450	536	1410	846	1520	141	283
BPM-O-1000/10	1000	1060	270	920	950	736	910	1046	1020	135	272
BPM-O-1000/12	1000	1260	270	920	1150	736	1110	1046	1220	151	304
BPM-O-1000/15	1000	1560	270	920	1450	736	1410	1046	1520	187	375
BPM-O-1200/12	1200	1260	270	1120	1150	936	1110	1246	1220	191	383
BPM-O-1200/15	1200	1560	270	1120	1450	936	1410	1246	1520	215	431

xEnergy Distribution Boards

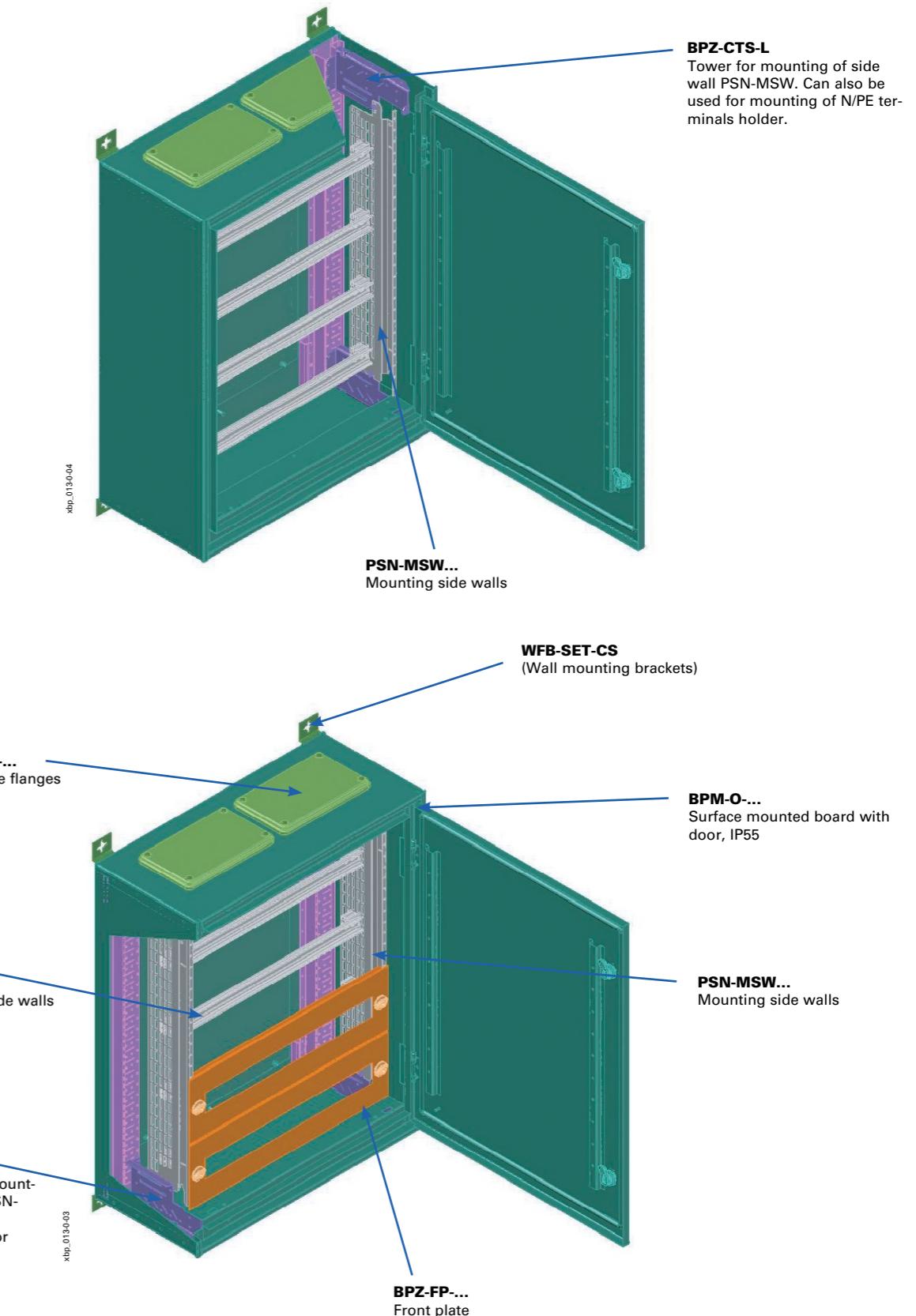
Surface-mounted distribution board BPM-O-..., IP55, Technical data

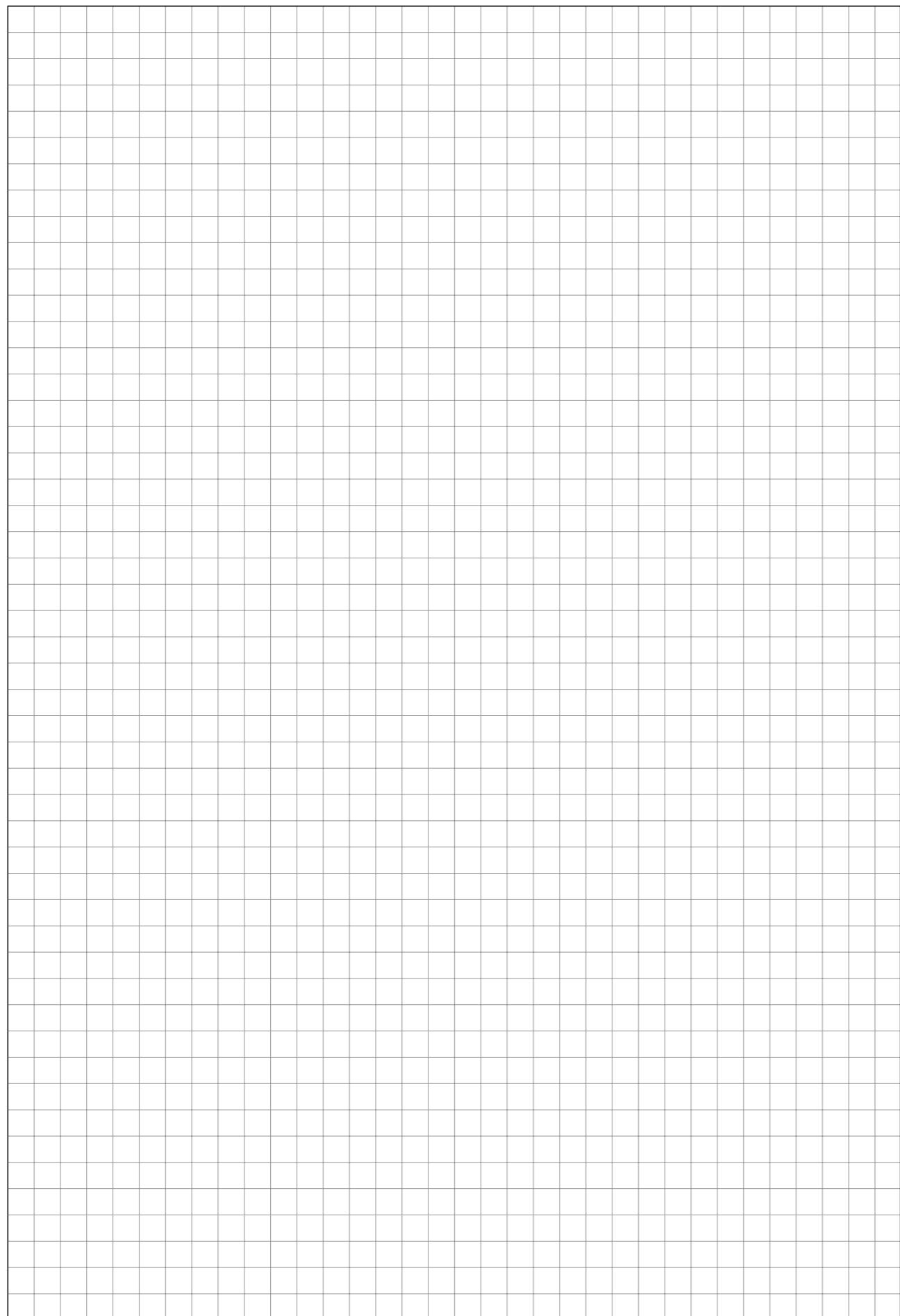
xEnergy Basic**Mounting of device rails onto rear frame (without mounting frame PSN-MSW)**

- Front plates are mounted onto supports PSN-FPS (not in Delivered as of BPM-O board)
- Welded construction, side panels of the cover cannot be unmounted

**xEnergy Basic****Mounting of device rails with mounting frame PSN-MSW**

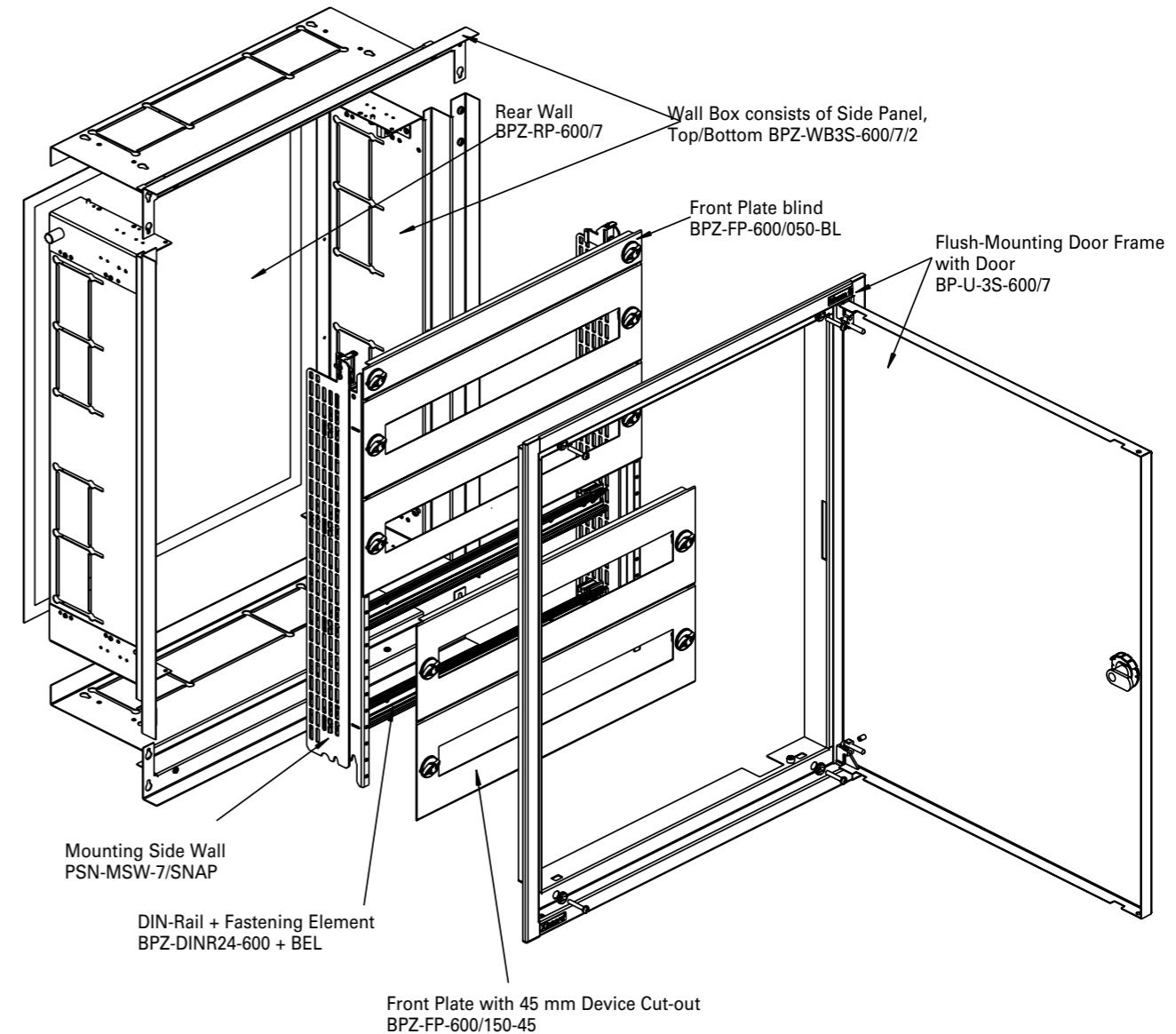
- Mounting onto corner towers BPZ-CTS-L (not in Delivered as of BPM-O board)
- The mounting process of side walls PSN-MSW is identical with version IP30
- Front plates are mounted directly onto PSN-MSW
- Welded construction, side panels of the cover cannot be unmounted





System Overview

BP(A/M)-U-3S-..., IP30/IP43/IP54



xEnergy Distribution Boards

Flush-mounted distribution board BP(A/M)-U-3S-..., IP30/IP43/IP54

xEnergy Basic
Sheet 1/4

Width [mm]	Height [mm]	Height int. [mm]	Wall box for 3-step / System dedicated for MSW installation / Depth 1 (180 mm)	Rear panel for 3-step / System galvanized / Sheet-steel	Flush-mounting door frame for 3-step design designed for indoor applications! / Degree of protection IP30
			Depth 2 (240 mm)	plastic	
Galvanized sheet-steel				Door with rotary handle	Door with clip-down handle
Blank empty	Blank empty	blank	RAL 7035 grey	RAL 7035 grey	RAL 9016 white
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit
unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.

BP(A/M)-U-3S... - project delivery form

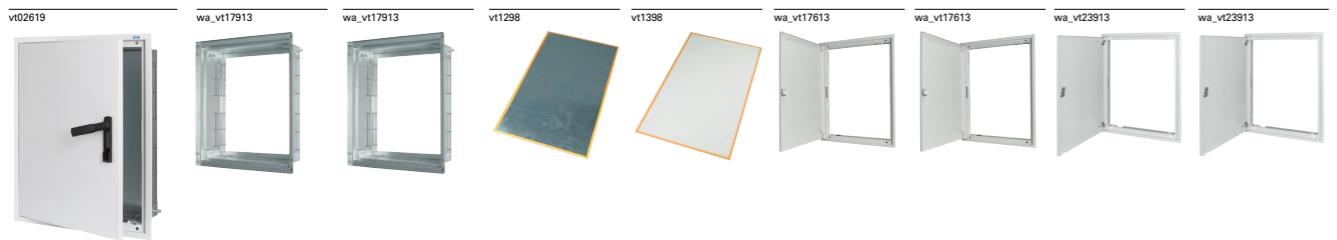
400 (13MU/row)	460	350	BPZ-WB3S-400/4/1	BPZ-WB3S-400/4/2	BPZ-RP-400/4	BPZ-RPP-400/4	BP-U-3S-400/4-W	BP-U-3S-400/4-P	BP-U-3S-400/4-P-W
		111097	111123	111285	111311	111149	111183	119093	119111
760	650	BPZ-WB3S-400/7/1	BPZ-WB3S-400/7/2	BPZ-RP-400/7	BPZ-RPP-400/7	BP-U-3S-400/7	BP-U-3S-400/7-W	BP-U-3S-400/7-P	BP-U-3S-400/7-P-W
		111098	111124	111286	111312	111150	111184	119094	119112
1060	950	BPZ-WB3S-400/10/1	BPZ-WB3S-400/10/2	BPZ-RP-400/10	BPZ-RPP-400/10	BP-U-3S-400/10	BP-U-3S-400/10-W	BP-U-3S-400/10-P	BP-U-3S-400/10-P-W
		111099	111125	111287	111313	111151	111185	119095	119113
1260	1150	BPZ-WB3S-400/12/1	BPZ-WB3S-400/12/2	BPZ-RP-400/12	BPZ-RPP-400/12	BP-U-3S-400/12	BP-U-3S-400/12-W	BP-U-3S-400/12-P	BP-U-3S-400/12-P-W
		111100	111126	111288	111314	111152	111186	119096	119114
600 (24MU/row)	460	350	BPZ-WB3S-600/4/1	BPZ-WB3S-600/4/2	BPZ-RP-600/4	BPZ-RPP-600/4	BP-U-3S-600/4	BP-U-3S-600/4-W	BP-U-3S-600/4-P
		111101	111127	111289	111315	111153	111187	119097	119115
760	650	BPZ-WB3S-600/7/1	BPZ-WB3S-600/7/2	BPZ-RP-600/7	BPZ-RPP-600/7	BP-U-3S-600/7	BP-U-3S-600/7-W	BP-U-3S-600/7-P	BP-U-3S-600/7-P-W
		111102	111128	111290	111316	111154	111188	119098	119116
1060	950	BPZ-WB3S-600/10/1	BPZ-WB3S-600/10/2	BPZ-RP-600/10	BPZ-RPP-600/10	BP-U-3S-600/10	BP-U-3S-600/10-W	BP-U-3S-600/10-P	BP-U-3S-600/10-P-W
		111103	111129	111291	111317	111155	111189	119099	119117
1260	1150	BPZ-WB3S-600/12/1	BPZ-WB3S-600/12/2	BPZ-RP-600/12	BPZ-RPP-600/12	BP-U-3S-600/12	BP-U-3S-600/12-W	BP-U-3S-600/12-P	BP-U-3S-600/12-P-W
		111104	111130	111292	111318	111156	111190	119100	119118
1560	1450	BPZ-WB3S-600/15/1	BPZ-WB3S-600/15/2	BPZ-RP-600/15	BPZ-RPP-600/15	BP-U-3S-600/15	BP-U-3S-600/15-W	BP-U-3S-600/15-P	BP-U-3S-600/15-P-W
		111105	111131	111293	111319	111157	111191	119101	119119
1760	1650	BPZ-WB3S-600/17/1	BPZ-WB3S-600/17/2	BPZ-RP-600/17	BPZ-RPP-600/17	BP-U-3S-600/17	BP-U-3S-600/17-W	BP-U-3S-600/17-P	BP-U-3S-600/17-P-W
		111106	111132	111294	111320	111158	111192	111160	111194
2060	1950	BPZ-WB3S-600/20/1	BPZ-WB3S-600/20/2	BPZ-RP-600/20	BPZ-RPP-600/20	BP-U-3S-600/20	BP-U-3S-600/20-W	BP-U-3S-600/20-P	BP-U-3S-600/20-P-W
		111107	111133	111295	111321	111159	111193	111161	111195
800 (35MU/row)	760	650	BPZ-WB3S-800/7/1	BPZ-WB3S-800/7/2	BPZ-RP-800/7	BPZ-RPP-800/7	BP-U-3S-800/7	BP-U-3S-800/7-W	BP-U-3S-800/7-P
		111108	111134	111296	111322	111162	111196	119102	119120
1060	950	BPZ-WB3S-800/10/1	BPZ-WB3S-800/10/2	BPZ-RP-800/10	BPZ-RPP-800/10	BP-U-3S-800/10	BP-U-3S-800/10-W	BP-U-3S-800/10-P	BP-U-3S-800/10-P-W
		111109	111135	111297	111323	111163	111197	119103	119121
1260	1150	BPZ-WB3S-800/12/1	BPZ-WB3S-800/12/2	BPZ-RP-800/12	BPZ-RPP-800/12	BP-U-3S-800/12	BP-U-3S-800/12-W	BP-U-3S-800/12-P	BP-U-3S-800/12-P-W
		111110	111136	111298	111324	111164	111198	119104	119122
1560	1450	BPZ-WB3S-800/15/1	BPZ-WB3S-800/15/2	BPZ-RP-800/15	BPZ-RPP-800/15	BP-U-3S-800/15	BP-U-3S-800/15-W	BP-U-3S-800/15-P	BP-U-3S-800/15-P-W
		111111	111137	111299	111325	111165	111199	119105	119123
		BPZ-WB3S-800/17/1	BPZ-WB3S-800/17/2	BPZ-RP-800/17	BPZ-RPP-800/17	BP-U-3S-800/17	BP-U-3S-800/17-W	BP-U-3S-800/17-P	BP-U-3S-800/17-P-W
		111112	111138	111300	111326	111166	111200	111168	111202
		BPZ-WB3S-800/20/1	BPZ-WB3S-800/20/2	BPZ-RP-800/20	BPZ-RPP-800/20	BP-U-3S-800/20	BP-U-3S-800/20-W	BP-U-3S-800/20-P	BP-U-3S-800/20-P-W
		111113	111139	111301	111327	111167	111201	111169	111203

xEnergy Basic
Sheet 2/4xEnergy Distribution Boards
Flush-mounted distribution board BP(A/M)-U-3S-..., IP30/IP43/IP54

Flush-mounting door frame for 3-step design / Ddesigned for indoor applications! / Degree of protection IP30 / Fire-resistant (E60/EW60)	Flush-mounting door frame for 3-step design / Designed for outdoor applications! / Degree of protection IP43	Flush-mounting door frame for 3-step design / Designed for industrial applications / Degree of protection IP54	MSW installation / Mounting Side Wall (MSW) with standard depth
Door with BPZ-LOCK/ SH6METAL RAL 7035 grey	Door with two-way key bit RAL 9016 white	Door with clip-down handle RAL 7035 grey	Door with clip-down handle RAL 7035 grey
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit
unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.
BP-U-3S-400/4-EW	BP-U-3S-400/4-EW-W	BPA-U-3S-400/4	BPM-U-3S-400/4
116570	116592	111217	111251
BP-U-3S-400/7-EW	BP-U-3S-400/7-EW-W	BPA-U-3S-400/7-P	BPM-U-3S-400/7-W
116571	116593	111218	119130
BP-U-3S-400/10-EW	BP-U-3S-400/10-EW-W	BPA-U-3S-400/10-P	BPM-U-3S-400/10-W
116572	116594	111219	119131
BP-U-3S-400/12-EW	BP-U-3S-400/12-EW-W	BPA-U-3S-400/12-P	BPM-U-3S-400/12-P
116573	116595	111220	119132
BP-U-3S-600/4-EW	BP-U-3S-600/4-EW-W	BPA-U-3S-600/4-P	BPM-U-3S-600/4-P
116574	116596	111221	119133
BP-U-3S-600/7-EW	BP-U-3S-600/7-EW-W	BPA-U-3S-600/7-P	BPM-U-3S-600/7-W
116575	116597	111222	119134
BP-U-3S-600/10-EW	BP-U-3S-600/10-EW-W	BPA-U-3S-600/10-P	BPM-U-3S-600/10-W
116576	116598	111223	119135
BP-U-3S-600/12-EW	BP-U-3S-600/12-EW-W	BPA-U-3S-600/12-P	BPM-U-3S-600/12-W
116577	116599	111224	119136
BP-U-3S-600/15-EW	BP-U-3		

xEnergy Distribution Boards

Flush-mounted distribution board BP(A/M)-U-3S-..., IP30/IP43/IP54

xEnergy
Basic
Sheet 3/4

Width [mm]	Height [mm]	Height int. [mm]	Wall box for 3-step system dedicated for MSW installation depth 1 (180 mm)	Wall box for 3-step system dedicated for MSW installation depth 2 (240 mm)	Rear panel for 3-step system galvanized sheet-steel	Rear panel for 3-step system plastic	Flush-mounting door frame for 3-step design designed for indoor applications!
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	
unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.	
1000 (46MU/row)	1060	950	BPZ-WB3S-1000/10/1 BPZ-WB3S-1000/10/2 BPZ-RP-1000/10	BPZ-RPP-1000/10	BP-U-3S-1000/10-W	BP-U-3S-1000/10-P	BP-U-3S-1000/10-P-W
	111114	111140	111302	111328	111170	111204	119106
	1260	1150	BPZ-WB3S-1000/12/1 BPZ-WB3S-1000/12/2 BPZ-RP-1000/12	BPZ-RPP-1000/12	BP-U-3S-1000/12-W	BP-U-3S-1000/12-P	BP-U-3S-1000/12-P-W
	111115	111141	111303	111329	111171	111205	119107
	1560	1450	BPZ-WB3S-1000/15/1 BPZ-WB3S-1000/15/2 BPZ-RP-1000/15	BPZ-RPP-1000/15	BP-U-3S-1000/15-W	BP-U-3S-1000/15-P	BP-U-3S-1000/15-P-W
	111116	111142	111304	111330	111172	111206	119108
	1760	1650	BPZ-WB3S-1000/17/1 BPZ-WB3S-1000/17/2 BPZ-RP-1000/17	BPZ-RPP-1000/17	BP-U-3S-1000/17-W	BP-U-3S-1000/17-P	BP-U-3S-1000/17-P-W
	111117	111143	111305	111331	111173	111207	111175
	2060	1950	BPZ-WB3S-1000/20/1 BPZ-WB3S-1000/20/2 BPZ-RP-1000/20	BPZ-RPP-1000/20	BP-U-3S-1000/20-W	BP-U-3S-1000/20-P	BP-U-3S-1000/20-P-W
	111118	111144	111306	111332	111174	111208	111176
1200 (57MU/row)	1260	1150	BPZ-WB3S-1200/12/1 BPZ-WB3S-1200/12/2 BPZ-RP-1200/12	BPZ-RPP-1200/12	BP-U-3S-1200/12-W	BP-U-3S-1200/12-P	BP-U-3S-1200/12-P-W
	111119	111145	111307	111333	111177	111211	119109
	1560	1450	BPZ-WB3S-1200/15/1 BPZ-WB3S-1200/15/2 BPZ-RP-1200/15	BPZ-RPP-1200/15	BP-U-3S-1200/15-W	BP-U-3S-1200/15-P	BP-U-3S-1200/15-P-W
	111120	111146	111308	111334	111178	111212	119110
	BPZ-WB3S-1200/17/1 BPZ-WB3S-1200/17/2 BPZ-RP-1200/17	BPZ-RPP-1200/17	BP-U-3S-1200/17-W	BP-U-3S-1200/17-P	BP-U-3S-1200/17-P-W		
	111121	111147	111309	111335	111179	111213	111181
	BPZ-WB3S-1200/20/1 BPZ-WB3S-1200/20/2 BPZ-RP-1200/20	BPZ-RPP-1200/20	BP-U-3S-1200/20-W	BP-U-3S-1200/20-P	BP-U-3S-1200/20-P-W		
	111122	111148	111310	111336	111180	111214	111182
						111216	

xEnergy
Basic
Sheet 4/4

Flush-mounted distribution board BP(A/M)-U-3S-..., IP30/IP43/IP54



xEnergy Distribution Boards

Flush-mounted distribution board BP(A/M)-U-3S-..., IP30/IP43/IP54

Description**BP-U-3S..., IP30 / IP43 / IP54, enclosure depth 180/240 mm**

- Delivery as „flatpack“ for project delivery possible
- Degree of protection IP30 / IP43 / IP54
- Impact resistance IK08
- Protection class I (protective earth)
- Cable entry directly via the wall box (perforated on all sides)
- Quick and easy change of the hinge direction, door opening angle ~110°
- Wall box intended to be fixed directly in the stonework
- Max. built-in-depth either 180 mm or 240 mm depends on type
- Flush-mounted frame incl. door made of sheet steel powder-coated, RAL 7035 / RAL 9016
- Lateral add-on connection as well as top/bottom arrangement possible
- Variable interior installation with “Mounting side panel” (MSW)
- Surface adjustment up to 18 mm possible

Technical data**BP-U-3S...****Electrical**

Type conforms to	IEC/EN 62208				
Protection class	I (protective earth)				
Degree of protection	IP30 (closed version with door/flansche) *) IP43 (special door frame BPA-U-3S... required) *) IP54 (special door frame BPM-U-3S... required) IP2XC (door open, user access level has to be closed properly with front covers)				
Impact resistance	IK08				
Rated operational voltage	415 VAC / 50 Hz				
Rated current	Max. 630 A (door open, user access level has to be closed properly with front covers)				
Earthing concept for the enclosure	<table border="0"> <tr> <td>Main earthing</td><td>By means of self-tapping screw M5 in the wall box</td></tr> <tr> <td>Door earthing</td><td>By means of M6 welding bolts</td></tr> </table>	Main earthing	By means of self-tapping screw M5 in the wall box	Door earthing	By means of M6 welding bolts
Main earthing	By means of self-tapping screw M5 in the wall box				
Door earthing	By means of M6 welding bolts				

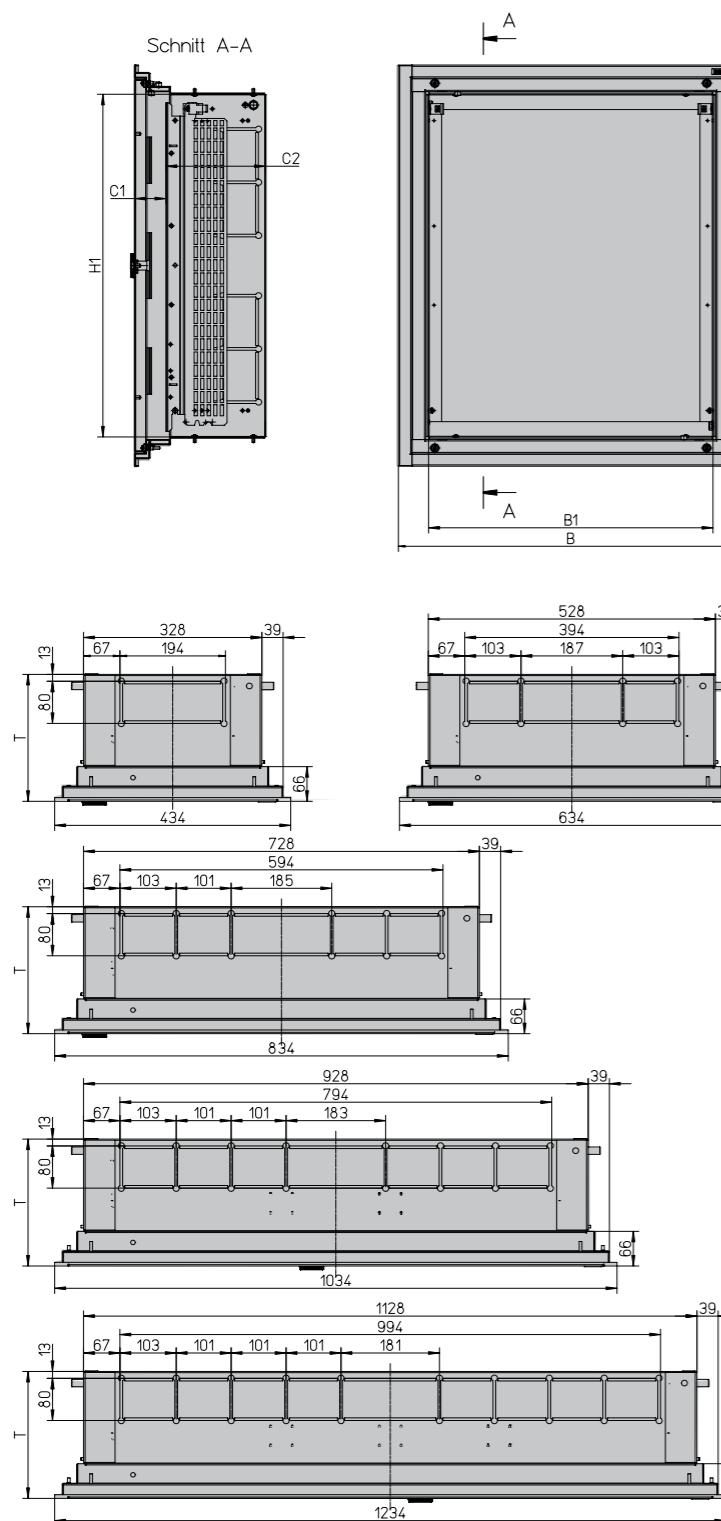
The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1.

For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35° C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc.to IEC/TR 60890).

Mechanical

Enclosure	Modular design by „flat-pack“ construction possible (rear panel - wall box - mounting insert - flush-mounted frame - door)
Material	Flush-mounted frame and door (IP30): Sheet steel 1.25/1 mm, phosphated and polyester powder coated (structured) with corrosion protection IP43/IP54: sea-water resistant aluminum 1.5 mm, polyester powder coated (structured) Wall box and rear panel: sheet steel 1 mm, galvanized
Colour	Traffic white RAL 9016, light grey RAL 7035
Door	Hinges on the inside, door opening angle ~110°; hinged either left or right, Width 1000 / 1200 mm in double-wing design, with encircling foamed sealing for IP43/IP54
Type	Flexible interior fitting with installation units ProfiSNAP on „mounting side panel“ (MSW) Mounting side panel (MSW): removable mounting insert, external installation, fast and reliable
Locking mechanism	IP30: standard cam lock (plastic), optional metal lock with standard locking or two-way key bit IP43/IP54: standard locking with two-way key bit (metal) respectively swing handle (optional lock cylinder as accessory) Three-point locking mechanism from height 1060 mm (one-point respectively two-point at height 460 / 760 mm)
Cable entry	Easy-to-cut perforations in the wall box
Ambient condition	BP-U-3S: Indoor installation (flush-mounted installation) BPA-U-3S: Outdoor installation (flush-mounting) to a outer wall / facade BPM-U-3S: Indoor installation (industrial environment) Max. ambient temperature +40° C Min. ambient temperature -5° C (indoor) Min. ambient temperature -25° C (outdoor)
Halogen-free, RoHS	< 1%, yes
Accessories	Alternative lock options, add-on connection kit
Delivered as	Flat-pack components prepared for interior fitting „MSW“

Dimensions (mm)



Dimensions (mm)

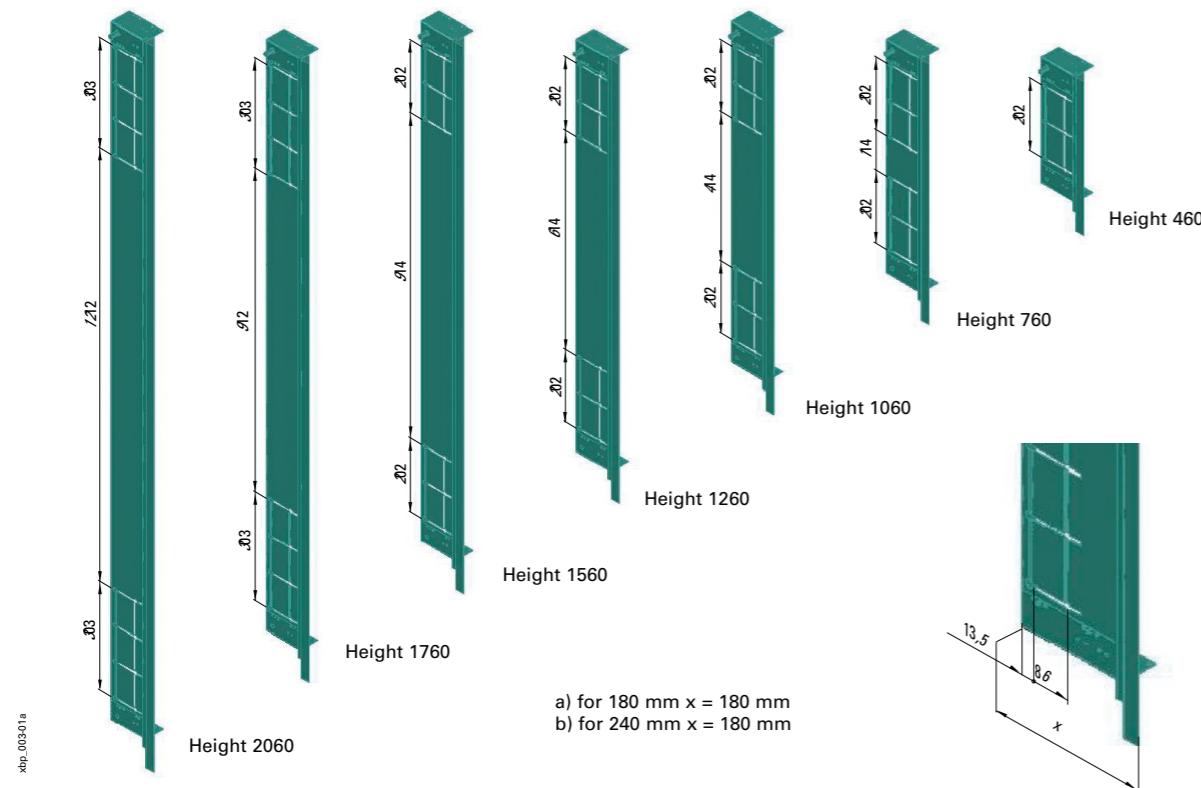
Type	Overall dimensions			Internal dimensions (front plate)						Pv [W] (ΔT 20K)	Pv [W] (ΔT 35K)	
	Width B	Height H	Depth T	Width B1	Height H1	C1	H2	C2	H3	Z		
BP-U-3S-400/4/1	434	460	180	320	350	56	66	123	355	2	22	44
BP-U-3S-400/7/1	434	760	180	320	650	56	74	123	655	2	32	64
BP-U-3S-400/10/1	434	1060	180	320	950	56	74	123	955	2	42	84
BP-U-3S-400/12/1	434	1260	180	320	1150	56	74	123	1155	2	48	97
BP-U-3S-600/4/1	634	460	180	520	350	56	68	123	355	2	33	65
BP-U-3S-600/7/1	634	760	180	520	650	56	76	123	655	2	46	92
BP-U-3S-600/10/1	634	1060	180	520	950	56	74	123	955	2	59	118
BP-U-3S-600/12/1	634	1260	180	520	1150	56	74	123	1155	2	68	137
BP-U-3S-600/15/1	634	1560	180	520	1450	56	74	123	1455	2	56	112
BP-U-3S-600/17/1	634	1760	180	520	1650	56	74	123	1655	3	60	121
BP-U-3S-600/20/1	634	2060	180	520	1950	56	74	123	1955	3	68	137
BP-U-3S-800/7/1	834	760	180	720	650	56	74	123	655	2	61	122
BP-U-3S-800/10/1	834	1060	180	720	950	56	74	123	955	2	60	121
BP-U-3S-800/12/1	834	1260	180	720	1150	56	74	123	1155	2	67	133
BP-U-3S-800/15/1	834	1560	180	720	1450	56	74	123	1455	2	81	162
BP-U-3S-800/17/1	834	1760	180	720	1650	56	74	123	1655	3	95	190
BP-U-3S-800/20/1	834	2060	180	720	1950	56	74	123	1955	3	111	222
BP-U-3S-1000/10/1	1034	1060	180	920	950	56	74	123	955	2	76	152
BP-U-3S-1000/12/1	1034	1260	180	920	1150	56	74	123	1155	2	90	180
BP-U-3S-1000/15/1	1034	1560	180	920	1450	56	74	123	1455	2	118	236
BP-U-3S-1000/17/1	1034	1760	180	920	1650	56	74	123	1655	3	129	259
BP-U-3S-1000/20/1	1034	2060	180	920	1950	56	74	123	1955	3	153	306
BP-U-3S-1200/12/1	1234	1260	180	1120	1150	56	74	123	1155	2	124	250
BP-U-3S-1200/15/1	1234	1560	180	1120	1450	56	74	123	1455	2	148	297
BP-U-3S-1200/17/1	1234	1760	180	1120	1650	56	74	123	1655	3	170	340
BP-U-3S-1200/20/1	1234	2060	180	1120	1950	56	74	123	1955	3	189	379
BP-U-3S-400/4/2	434	460	240	320	350	56/92	66	183/147	355	2	24	49
BP-U-3S-400/7/2	434	760	240	320	650	56/92	74	183/147	655	2	35	71
BP-U-3S-400/10/2	434	1060	240	320	950	56/92	74	183/147	955	2	46	92
BP-U-3S-400/12/2	434	1260	240	320	1150	56/92	74	183/147	1155	2	53	106
BP-U-3S-600/4/2	634	460	240	520	350	56/92	68	183/147	355	2	36	71
BP-U-3S-600/7/2	634	760	240	520	650	56/92	76	183/147	655	2	49	99
BP-U-3S-600/10/2	634	1060	240	520	950	56/92	74	183/147	955	2	63	127
BP-U-3S-600/12/2	634	1260	240	520	1150	56/92	74	183/147	1155	2	56	113
BP-U-3S-600/15/2	634	1560	240	520	1450	56/92	74	183/147	1455	2	64	128
BP-U-3S-600/17/2	634	1760	240	520	1650	56/92	74	183/147	1655	3	70	140
BP-U-3S-600/20/2	634	2060	240	520	1950	56/92	74	183/147	1955	3	83	166
BP-U-3S-800/7/2	834	760	240	720	650	56/92	74	183/147	655	2	65	130
BP-U-3S-800/10/2	834	1060	240	720	950	56/92	74	183/147	955	2	67	134
BP-U-3S-800/12/2	834	1260	240	720	1150	56/92	74	183/147	1155	2	74	149
BP-U-3S-800/15/2	834	1560	240	720	1450	56/92	74	183/147	1455	2	93	187
BP-U-3S-800/17/2	834	1760	240	720	1650	56/92	74	183/147	1655	3	112	224
BP-U-3S-800/20/2	834	2060	240	720	1950	56/92	74	183/147	1955	3	125	251
BP-U-3S-1000/10/2	1034	1060	240	920	950	56/92	74	183/147	955	2	86	173
BP-U-3S-1000/12/2	1034	1260	240	920	1150	56/92	74	183/147	1155	2	103	206
BP-U-3S-1000/15/2	1034	1560	240	920	1450	56/92	74	183/147	1455	2	131	262
BP-U-3S-1000/17/2	1034	1760	240	920	1650	56/92	74	183/147	1655	3	145	290
BP-U-3S-1000/20/2	1034	2060	240	920	1950	56/92	74	183/147	1955	3	175	350
BP-U-3S-1200/12/2	1234	1260	240	1120	1150	56/92	74	183/147	1155	2	139	278
BP-U-3S-1200/15/2	1234	1560	240	1120	1450	56/92	74	183/147	1455	2	165	331
BP-U-3S-1200/17/2	1234	1760	240	1120	1650	56/92	74	183/147	1655	3	192	385
BP-U-3S-1200/20/2	1234	2060	240	1120	1950	56/92	74	183/147	1955	3	204	410

xEnergy Distribution Boards

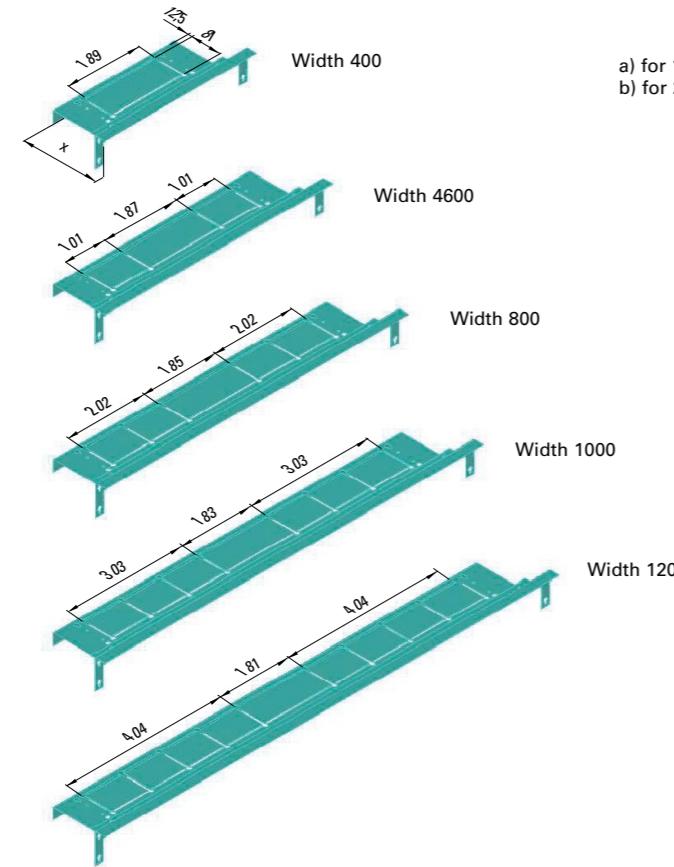
Flush-mounted distribution board BP(A/M)-U-3S..., IP30/IP43/IP54, Technical data

Side panels of wall box BPZ-WB3S

Depth 180, 240

**Top and bottom panel of wall box BPZ-WB3S**

Depth 180, 240

**xEnergy Basic****xEnergy Basic****xEnergy Distribution Boards**

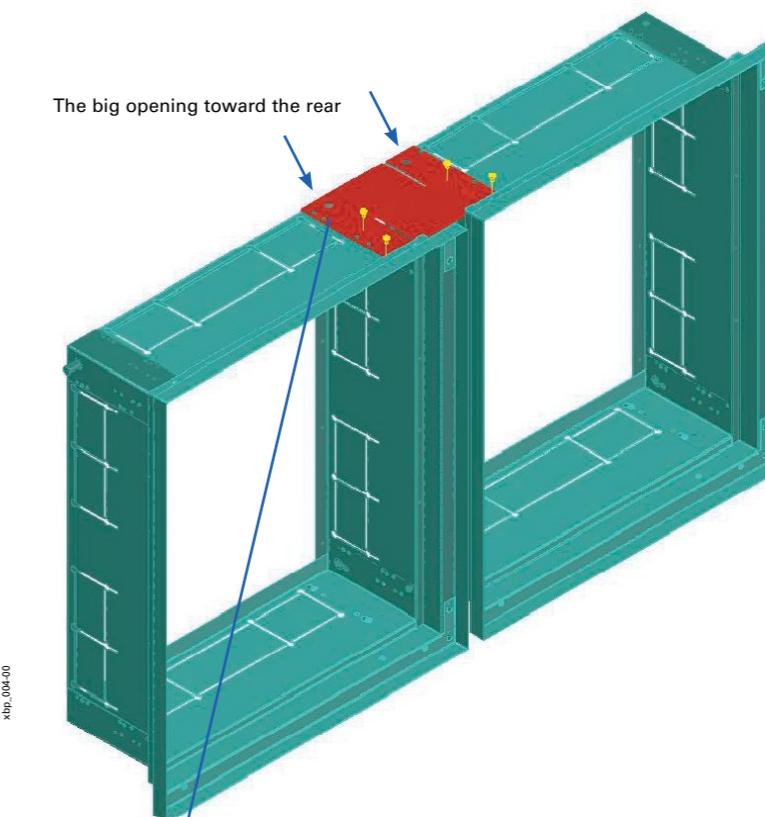
Flush-mounted distribution board BP(A/M)-U-3S..., IP30/IP43/IP54, Technical data

Connecting of flush-mounting boards with BPZ-BR/WB3S

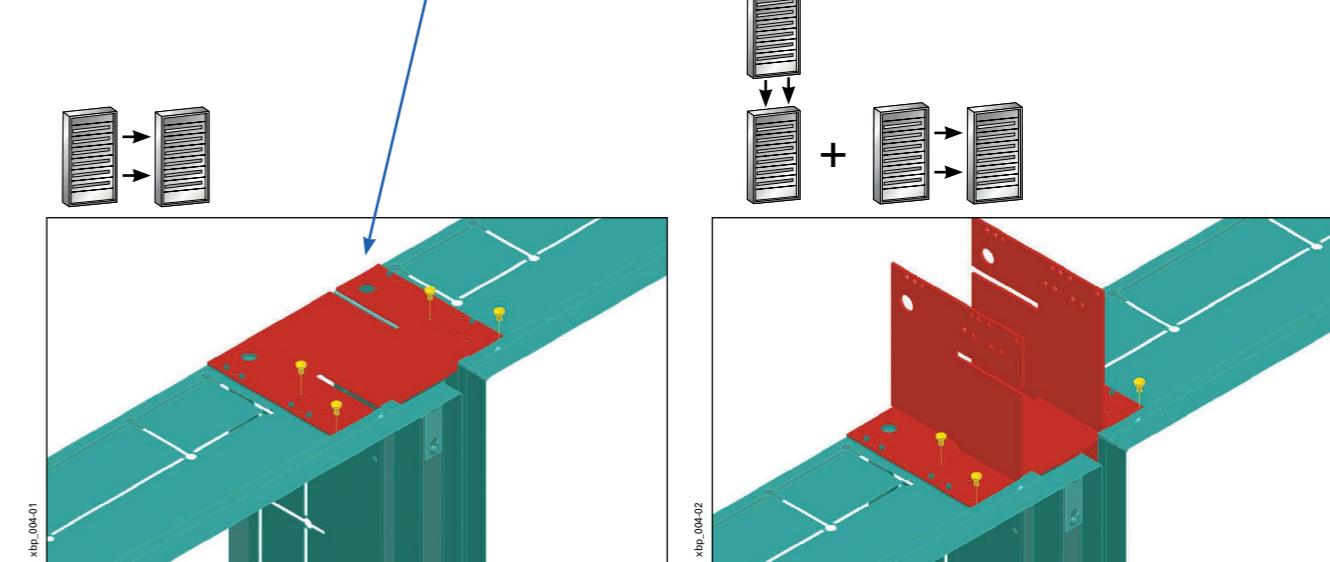
- Use of coupling flange BPZ-BR/WB3S
- The coupling flanges define respective space in between particular wall boxes
- Possible to connect boards in parallel, one above the other or into a cross (i.e. parallel and one above the other at the same time)

Mounting process:

1. Placing of wall boxes BPZ-WB3S in parallel / one above the other
2. Put of flange BPZ-BR/WB3S. The big opening has to be oriented toward the rear
3. Fixing of the flange by means of screws



Connection of boards in parallel / above the other



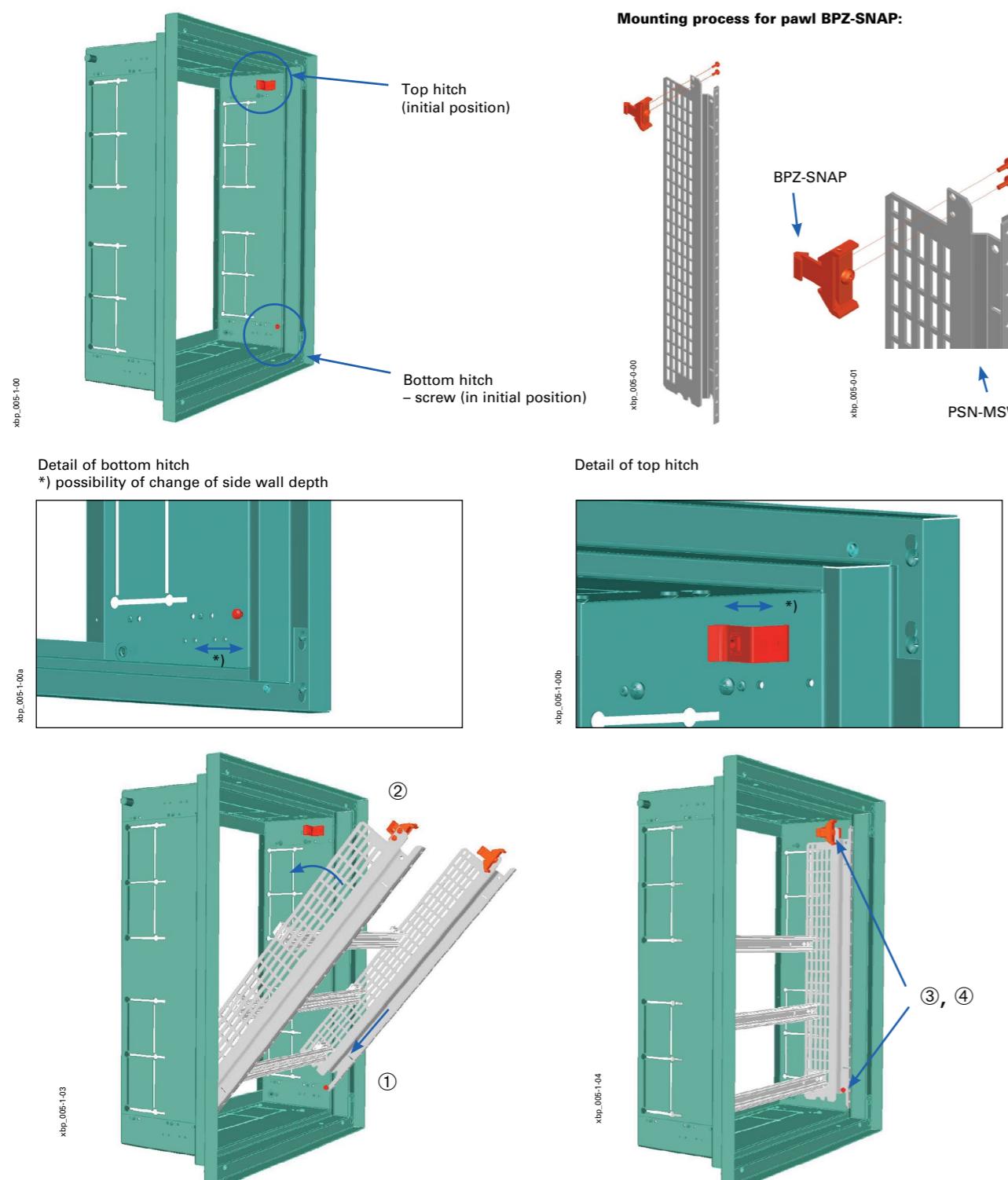
Cross connection of 4 boards (2 x 2)

Mounting of side walls PSN-MSW into wall box BPZ-WB3S**Mounting process:**

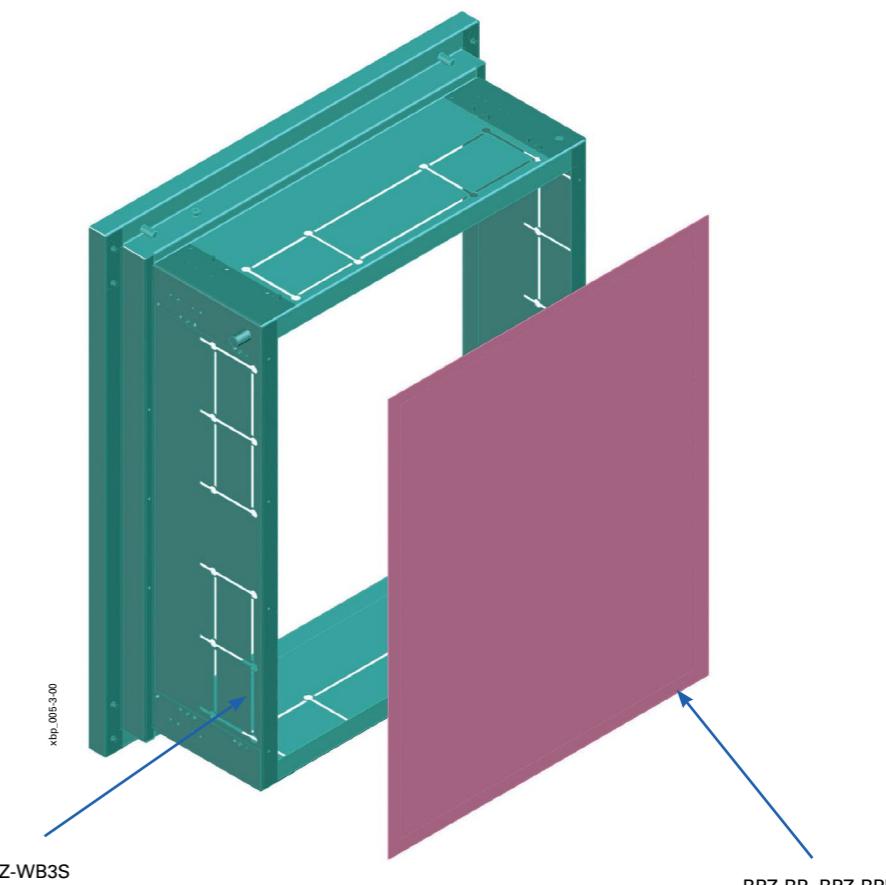
1. Placing of the side wall PSN-MSW on bottom hitch
2. Tipping of the side wall to correct position. This position is indicated with click of the pawl BPZ-SNAP.
3. Tightening of the top hitch screw
4. Tightening of the bottom hitch screw

Notes:

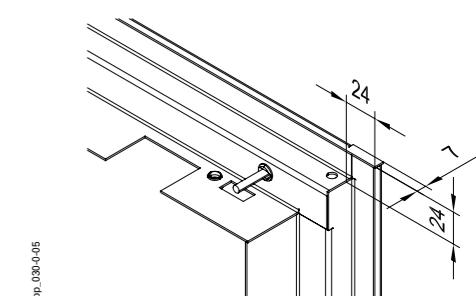
- Usually, a complete frame (2 side walls, device rails, devices) is mounted
- For flush-mounting boards, the sidewalls PSN-MSW have to be equipped with pawls BPZ-SNAP. These pawls do not substitute a function of the original screw.
- The frame has to be fixed with this screw!
- To demount the frame PSN-MSW, a flat screwdriver is necessary to press away a pin of pawl BPZ-SNAP.

**Rear walls, BPZ-RP**

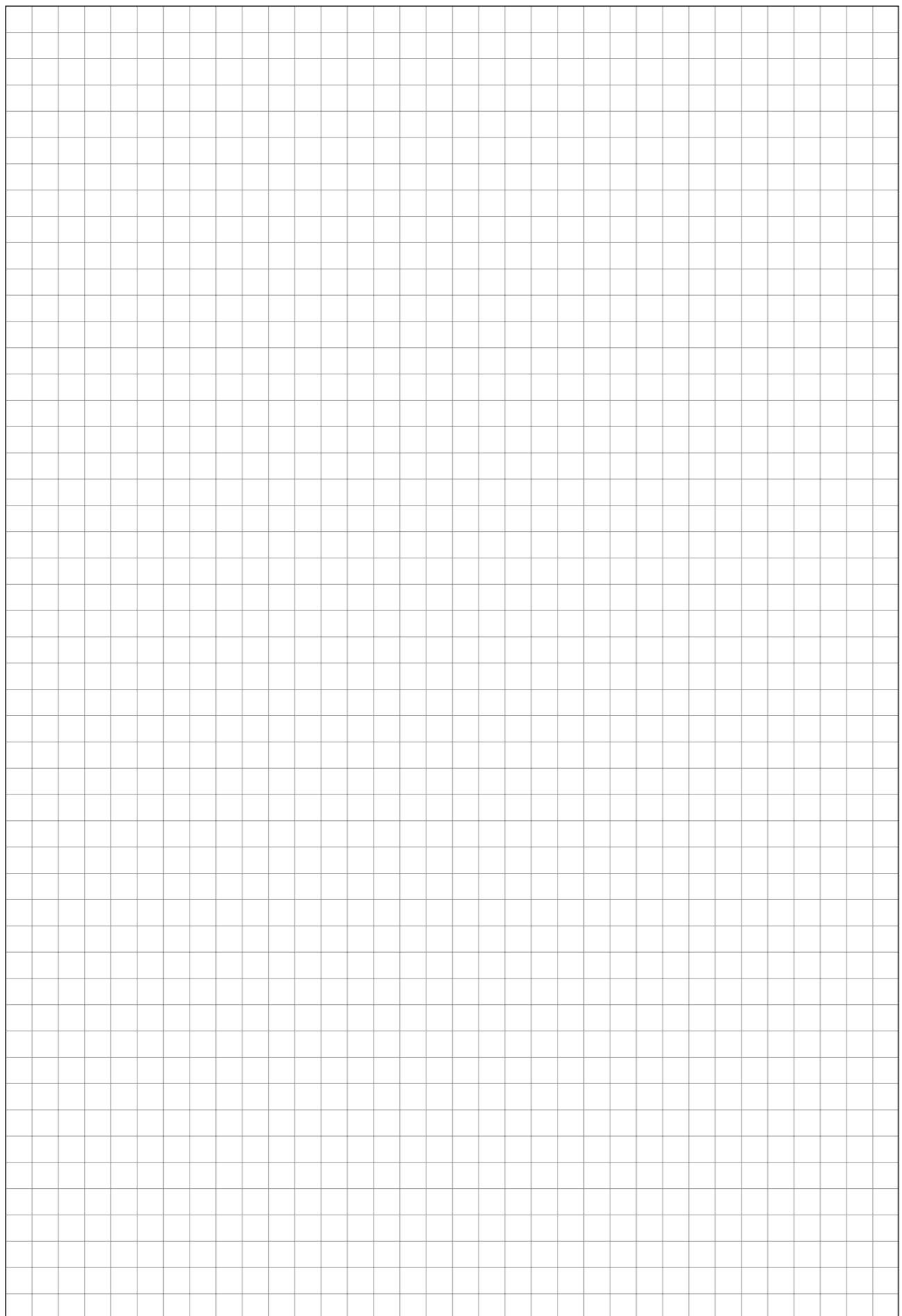
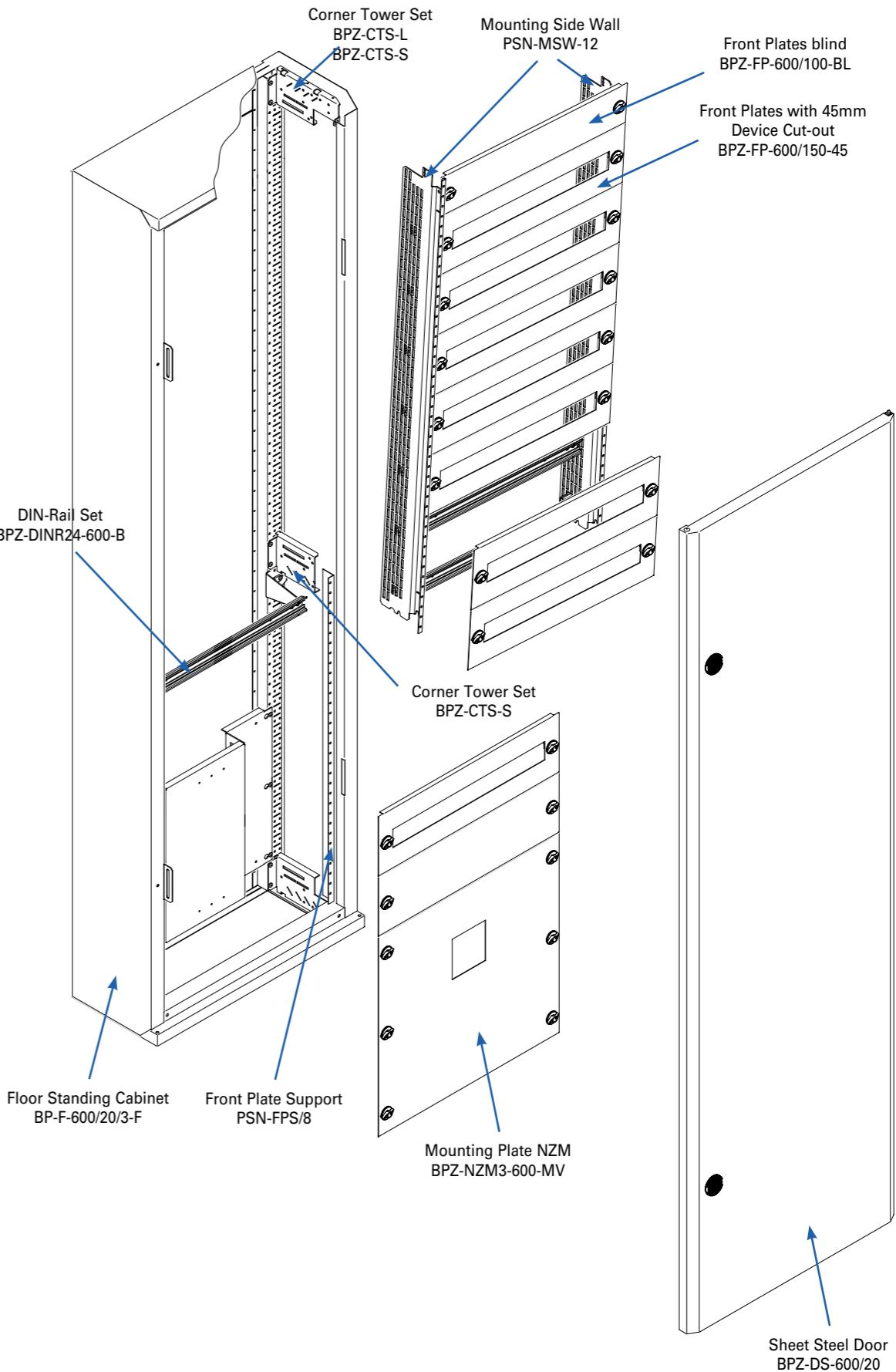
- Rear wall for wall box BPZ-WB3S
- Material: sheet steel, zinc-coated, thickness 1 mm, plastic
- Mounting by means of self-sealing tape
- Delivered as: 1 rear panel
- Attention: sheet steel rear wall must be connected through screws into the earthing concept!

**3-Step Flush-Mounting Door Frame, with Door, BP-U-3S...**

- IP30 ... BP-U-3S
- IP43 ... BPA-U-3S, with foamed sealing and rain bar for outdoor application
- IP54 ... BPM-U-3S, with foamed sealing for moisture-proof application
- Material: Sheet steel, powder-coated, RAL 7035 or RAL 9016
Aluminium, powder-coated, RAL 7035
- Delivered as: Frame, door with hinges
- Attention: Inserting the Flush-Mounting Door Frame BPA-U-3S (IP43) or BPM-U-3S (IP54) in the Wall Box BPZ-WB3S, the facility builder has to ensure waterproofing against the wall covering substrate.

**Separation Frame Set, BPZ-USF**

- Only for flush-mounting boards with a width of 1000 and 1200 mm
- Only with MSW application
- For separate a 1000 or 1200 mm board in a 600/400 or 600/600 section
- Material: Sheet steel, powder-coated grey (RAL 7035) and white (RAL 9016)
- Delivered as: 1 Separation Frame and fixing material

**System Overview****BP-F-..., IP30 (IP31), enclosure depth 250 / 300 / 400 mm**

xEnergy Distribution Boards

Floor-standing distribution board BP-F-..., IP30



xEnergy
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Width [mm]	Height int. [mm]	Height [mm]	Pre-assembled configuration individual installation / incl. 2K-flanges on top/bottom / Door with swing handle / Standard depth of 300 mm	Pre-assembled configuration individual installation / incl. 2K-flanges on top/bottom / Door with clip-down handle BPZ-SH-L / Standard depth of 300 mm	Pre-assembled configuration individual installation / Prepared for installation, incl. 2K-flanges on top/bottom F3A-flanges on top/bottom / Door with clip-down handle BPZ-SH-L / Standard depth of 300 mm	Pre-assembled configuration for individual door / Reduced depth of 250 mm	Pre-assembled configuration for individual door / Extended depth of 400 mm
RAL 7035 grey Empty	RAL 9016 white	RAL 7035 grey Empty	RAL 9016 white	RAL 7035 grey Empty	RAL 7035 grey Empty	RAL 7035 grey Empty	RAL 9016 white
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.
BP-F-..., IP30 - fully assembled							

400 (13MU/ row)	1760	1650	BP-F-400/17/3-W	BP-F-400/17/3-P	BP-F-400/17/3-P-W	BP-F-400/17/3-P-F3A	-	-
		102055	102335	102355	102375	187840		
	2060	1950	BP-F-400/20/3	BP-F-400/20/3-W	BP-F-400/20/3-P	BP-F-400/20/3-P-W	BP-F-400/20/3-P-F3A	BP-F-400/20/2.5 *) BP-F-400/20/4-P
		102056	102336	102356	102376	187841	119187	119192
600 (24MU/ row)	1760	1650	BP-F-600/17/3-W	BP-F-600/17/3-P	BP-F-600/17/3-P-W	BP-F-600/17/3-P-F3A	-	-
		102057	102337	102357	102377	187842		
	2060	1950	BP-F-600/20/3	BP-F-600/20/3-W	BP-F-600/20/3-P	BP-F-600/20/3-P-W	BP-F-600/20/3-P-F3A	BP-F-600/20/2.5 *) BP-F-600/20/4-P
		102058	102338	102358	102378	187843	119188	119193
800 (35MU/ row)	1760	1650	BP-F-800/17/3-W	BP-F-800/17/3-P	BP-F-800/17/3-P-W	BP-F-800/17/3-P-F3A	-	-
		102059	102339	102359	102379	187844		
	2060	1950	BP-F-800/20/3	BP-F-800/20/3-W	BP-F-800/20/3-P	BP-F-800/20/3-P-W	BP-F-800/20/3-P-F3A	BP-F-800/20/2.5 *) BP-F-800/20/4-P
		102320	102340	102360	102380	187845	119189	119194
1000 (46MU/ row)	1760	1650	BP-F-1000/17/3	BP-F-1000/17/3-W	BP-F-1000/17/3-P	BP-F-1000/17/3-P-W	BP-F-1000/17/3-P-F3A	-
		102321	102341	102361	102381	187846		
	2060	1950	BP-F-1000/20/3	BP-F-1000/20/3-W	BP-F-1000/20/3-P	BP-F-1000/20/3-P-W	BP-F-1000/20/3-P-F3A	BP-F-1000/20/2.5 *) BP-F-1000/20/4-P
		102322	102342	102362	102382	187847	119190	119195
1200 (57MU/ row)	1760	1650	BP-F-1200/17/3	BP-F-1200/17/3-W	BP-F-1200/17/3-P	BP-F-1200/17/3-P-W	BP-F-1200/17/3-P-F3A	-
		102323	102343	102363	102383	187848		
	2060	1950	BP-F-1200/20/3	BP-F-1200/20/3-W	BP-F-1200/20/3-P	BP-F-1200/20/3-P-W	BP-F-1200/20/3-P-F3A	BP-F-1200/20/2.5 *) BP-F-1200/20/4-P
		102324	102344	102364	102384	187849	119191	119196

*) with a depth of 250mm only MSW mounting possible!

xEnergy
Basic
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Plinth 100 mm / Side parts 1 pair / Front cover / Standard depth of 300 mm	Cable arrangement / Plinth 100 mm / Cable strain-relief rail / Standard depth of 300 mm	Installation back frame / Frontplate support	MSW installation / Mounting Side Wall (MSW) with standard depth	MSW installation / Mounting Side Wall (MSW) with extended depth
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RAL 7035 grey	RAL 9016 white	RAL 7035 grey	RAL 9016 white	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.
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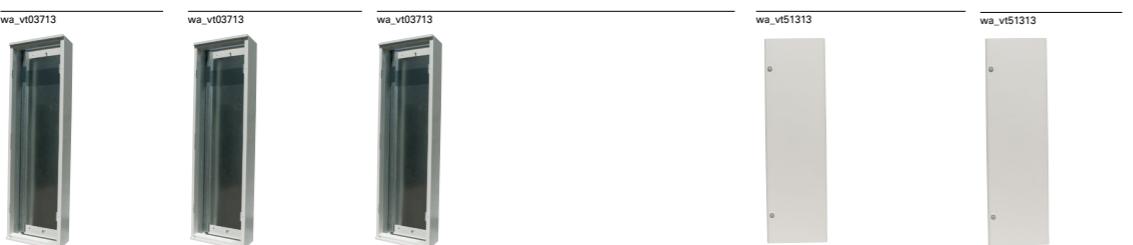
BPZ-SS-1/3 293513	BPZ-SS-1/3-W 293514	BPZ-KR41/300 116269	BPZ-KR41/300-W 116277	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502580	PSN-MSW/17-EXT
BPZ-FS-400/1 293493	BPZ-FS-400/1-W 293494	BPZ-KFS-400 116293	BPZ-KFS-400 116293	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141	PSN-MSW/20-EXT EP-502581
BPZ-SS-1/3 293513	BPZ-SS-1/3-W 293514	BPZ-KR61/300 116271	BPZ-KR61/300-W 116279	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502580	PSN-MSW/17-EXT
BPZ-FS-600/1 293497	BPZ-FS-600/1-W 293498	BPZ-KFS-600 116294	BPZ-KFS-600 116294	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141	PSN-MSW/20-EXT EP-502581
BPZ-SS-1/3 293513	BPZ-SS-1/3-W 293514	BPZ-KR81/300 187882	BPZ-KR81/300-W 187886	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502580	PSN-MSW/17-EXT
BPZ-FS-800/1 293501	BPZ-FS-800/1-W 293502	BPZ-KFS-800 187892	BPZ-KFS-800 187892	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141	PSN-MSW/20-EXT EP-502581
BPZ-SS-1/3 293513	BPZ-SS-1/3-W 293514	BPZ-KR101/300 187884	BPZ-KR101/300-W 187888	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502580	PSN-MSW/17-EXT
BPZ-FS-1000/1 293505	BPZ-FS-1000/1-W 293506	BPZ-KFS-1000 187893	BPZ-KFS-1000 187893	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141	PSN-MSW/20-EXT EP-502581
BPZ-SS-1/3 293513	BPZ-SS-1/3-W 293514	BPZ-KR121/300 116275	BPZ-KR121/300-W 116283	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502580	PSN-MSW/17-EXT
BPZ-FS-1200/1 293509	BPZ-FS-1200/1-W 293510	BPZ-KFS-1200 116296	BPZ-KFS-1200 116296	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141	PSN-MSW/20-EXT EP-502581

xEnergy Distribution Boards

Floor-standing distribution board BP-F-..., IP30

xEnergy Distribution Boards

Floor-standing distribution board BP-F-..., IP30



Width [mm]	Height int. [mm]	Height [mm]	Pre-assembled configuration individual installation / Without flange plate / Without door / Standard depth of 300 mm	Pre-assembled configuration prepared for MSW installation / Without flange plate / Without door / Reduced depth of 250 mm	Sheet metal door / Swing handle Extended depth of 400 mm
			RAL 7035 grey Empty	RAL 9016 white	RAL 7035 grey RAL 9016 white
			Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

BP-F-..., IP30 - fully assembled

400 (13MU/row)	1760	1650	BP-F-400/17/3-F	BP-F-400/17/3-F-W	-	-	BPZ-DS-400/17	BPZ-DS-400/17-W
					102407		102419	102443
	2060	1950	BP-F-400/20/3-F	BP-F-400/20/3-F-W	BP-F-400/20/2.5-F	BP-F-400/20/4-F	BPZ-DS-400/20	BPZ-DS-400/20-W
					102396	102408	120754	120759
600 (24MU/row)	1760	1650	BP-F-600/17/3-F	BP-F-600/17/3-F-W	-	-	BPZ-DS-600/17	BPZ-DS-600/17-W
					102397	102409	102421	102445
	2060	1950	BP-F-600/20/3-F	BP-F-600/20/3-F-W	BP-F-600/20/2.5-F	BP-F-600/20/4-F	BPZ-DS-600/20	BPZ-DS-600/20-W
					102398	102410	120755	120760
800 (35MU/row)	1760	1650	BP-F-800/17/3-F	BP-F-800/17/3-F-W	-	-	BPZ-DS-800/17	BPZ-DS-800/17-W
					102399	102411	102423	102447
	2060	1950	BP-F-800/20/3-F	BP-F-800/20/3-F-W	BP-F-800/20/2.5-F	BP-F-800/20/4-F	BPZ-DS-800/20	BPZ-DS-800/20-W
1000 (46MU/row)	1760	1650	BP-F-1000/17/3-F	BP-F-1000/17/3-F-W	-	-	BPZ-DS-400/17-L+	BPZ-DS-400/17-L-W+
					120691	120695	BPZ-DS-600/17	BPZ-DS-600/17-W
							106374 + 102421	106378 + 102445
	2060	1950	BP-F-1000/20/3-F	BP-F-1000/20/3-F-W	BP-F-1000/20/2.5-F	BP-F-1000/20/4-F	BPZ-DS-400/20-L+	BPZ-DS-400/20-L-W+
					120692	120696	120757	120762
							106375 + 102422	106379 + 102446
1200 (57MU/row)	1760	1650	BP-F-1200/17/3-F	BP-F-1200/17/3-F-W	-	-	BPZ-DS-600/17-L+	BPZ-DS-600/17-L-W+
					120693	120697	BPZ-DS-600/17	BPZ-DS-600/17-W
							106376 + 102421	106420 + 102445
	2060	1950	BP-F-1200/20/3-F	BP-F-1200/20/3-F-W	BP-F-1200/20/2.5-F	BP-F-1200/20/4-F	BPZ-DS-600/20-L+	BPZ-DS-600/20-L-W+
					120694	120698	120758	120763
							106377 + 102422	106421 + 102446

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xEnergy Basic Sheet 4/6



Sheet metal door (transparent) Swing handle	Sheet metal door Clip-down handle	Sheet metal door (transparent) Clip-down handle
RAL 7035 grey	RAL 9016 white	RAL 7035 grey
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

BPZ-DT-400/17 102431	BPZ-DT-400/17-W 102455	BPZ-DS-400/17-P 102425	BPZ-DS-400/17-P-W 102449	BPZ-DT-400/17-P 102437	BPZ-DT-400/17-P-W 102461
BPZ-DT-400/20 102432	BPZ-DT-400/20-W 102456	BPZ-DS-400/20-P 102426	BPZ-DS-400/20-P-W 102450	BPZ-DT-400/20-P 102438	BPZ-DT-400/20-P-W 102462
BPZ-DT-600/17 102433	BPZ-DT-600/17-W 102457	BPZ-DS-600/17-P 102427	BPZ-DS-600/17-P-W 102451	BPZ-DT-600/17-P 102439	BPZ-DT-600/17-P-W 102463
BPZ-DT-600/20 102434	BPZ-DT-600/20-W 102458	BPZ-DS-600/20-P 102428	BPZ-DS-600/20-P-W 102452	BPZ-DT-600/20-P 102440	BPZ-DT-600/20-P-W 102464
BPZ-DT-800/17 102435	BPZ-DT-800/17-W 102459	BPZ-DS-800/17-P 102429	BPZ-DS-800/17-P-W 102453	BPZ-DT-800/17-P 102441	BPZ-DT-800/17-P-W 102465
BPZ-DT-800/20 102436	BPZ-DT-800/20-W 102460	BPZ-DS-800/20-P 102430	BPZ-DS-800/20-P-W 102454	BPZ-DT-800/20-P 102442	BPZ-DT-800/20-P-W 102466
BPZ-DT-400/17-L + BPZ-BPZ-DT-400/17-L-W + DT-600/17 106422 + 102433	BPZ-DT-600/17-W 106426 + 102457	BPZ-DS-400/17-L + BPZ-BPZ-DS-400/17-L-W + DS-600/17-P 106374 + 102427	BPZ-DS-400/17-L-W 106378 + 102451	BPZ-DT-400/17-L + BPZ-DT-600/17-P 106422 + 102439	BPZ-DT-400/17-L-W + BPZ-DT-600/17-P-W 106426 + 102463
BPZ-DT-400/20-L + BPZ-BPZ-DT-400/20-L-W + DT-600/20 106423 + 102434	BPZ-DT-600/20-W 106427 + 102458	BPZ-DS-400/20-L + BPZ-BPZ-DS-400/20-L-W + DS-600/20-P 106375 + 102428	BPZ-DS-400/20-L-W 106379 + 102452	BPZ-DT-400/20-L + BPZ-DT-600/20-P 106423 + 102440	BPZ-DT-400/20-L-W + BPZ-DT-600/20-P-W 106427 + 102464
BPZ-DT-600/17-L + BPZ-DT-600/17-W 106424 + 102433	BPZ-DT-600/17-W 106428 + 102457	BPZ-DS-600/17-L + BPZ-DS-600/17-P 106376 + 102427	BPZ-DS-600/17-L-W 106420 + 102451	BPZ-DT-600/17-L + BPZ-DT-600/17-P 106424 + 102439	BPZ-DT-600/17-L-W + BPZ-DT-600/17-P-W 106428 + 102463
BPZ-DT-600/20-L + BPZ-DT-600/20-W 106425 + 102434	BPZ-DT-600/20-W 106429 + 102458	BPZ-DS-600/20-L + BPZ-DS-600/20-P 106377 + 102428	BPZ-DS-600/20-L-W 106421 + 102452	BPZ-DT-600/20-L + BPZ-DT-600/20-P 106425 + 102440	BPZ-DT-600/20-L-W + BPZ-DT-600/20-P-W 106429 + 102464

xEnergy Distribution Boards

Floor-standing distribution board BP-F-..., IP30



Width [mm]	Height [mm]	Height int. incl. F3A-XP [mm]	Add-on canopy for IP31 applications	Plinth 100 mm Side parts 1 pair / Front cover Reduced depth of 250 mm	Plinth 100 mm Side parts 1 pair blind-open for cable guiding between the sections / Extended depth of 400 mm
RAL 7035 grey	RAL 9016 white	RAL 7035 grey	RAL 7035 grey standard depth of 300 mm	RAL 9016 white	RAL 9016 white
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.			

BP-F-..., IP30 - fully assembled

400 (13MU/row)	1760	1650	BPZ-CNP-400-IP31	BPZ-CNP-400-IP31-W	BPZ-SS-1/250	BPZ-SS-1/400	BPZ-SS-1/300/SET/BO	BPZ-SS-1/300/SET/BO-W	119166	119165	119181	119185
			194536	194541		119166	119181	119185	119165	119181	119181	119185
					BPZ-FS-400/1	BPZ-FS-400/1	BPZ-FS-400/1	BPZ-FS-400/1-W	293493	293493	293493	293494
600 (24MU/row)	1760	1650	BPZ-CNP-600-IP31	BPZ-CNP-600-IP31-W	BPZ-SS-1/250	BPZ-SS-1/400	BPZ-SS-1/300/SET/BO	BPZ-SS-1/300/SET/BO-W	119166	119165	119181	119185
			194537	194542		119166	119181	119185	119165	119181	119181	119185
					BPZ-FS-600/1	BPZ-FS-600/1	BPZ-FS-600/1	BPZ-FS-600/1-W	293497	293497	293497	293498
800 (35MU/row)	1760	1650	BPZ-CNP-800-IP31	BPZ-CNP-800-IP31-W	BPZ-SS-1/250	BPZ-SS-1/400	BPZ-SS-1/300/SET/BO	BPZ-SS-1/300/SET/BO-W	119166	119165	119181	119185
			194538	194543		119166	119181	119185	119165	119181	119181	119185
					BPZ-FS-800/1	BPZ-FS-800/1	BPZ-FS-800/1	BPZ-FS-800/1-W	293501	293501	293501	293502
1000 (46MU/row)	1760	1650	BPZ-CNP-1000-IP31	BPZ-CNP-1000-IP31-W	BPZ-SS-1/250	BPZ-SS-1/400	BPZ-SS-1/300/SET/BO	BPZ-SS-1/300/SET/BO-W	119166	119165	119181	119185
			194539	194544		119166	119181	119185	119165	119181	119181	119185
					BPZ-FS-1000/1	BPZ-FS-1000/1	BPZ-FS-1000/1	BPZ-FS-1000/1-W	293505	293505	293505	293506
1200 (57MU/row)	1760	1650	BPZ-CNP-1200-IP31	BPZ-CNP-1200-IP31-W	BPZ-SS-1/250	BPZ-SS-1/400	BPZ-SS-1/300/SET/BO	BPZ-SS-1/300/SET/BO-W	119166	119165	119181	119185
			194540	194545		119166	119181	119185	119165	119181	119181	119185
					BPZ-FS-1200/1	BPZ-FS-1200/1	BPZ-FS-1200/1	BPZ-FS-1200/1-W	293509	293509	293509	293510

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xEnergy Basic Sheet 6/6

xEnergy Distribution Boards

Floor-standing distribution board BP-F-..., IP30



Plinth 100 mm Side parts 1 pair open-open for cable guiding between the sections / Front cover	Plinth 100 mm / for cable guiding between the sections / Side parts 1 pair blind-open	Plinth 200 mm Side parts 1 pair / Front cover	Plinth 200 mm Side parts 1 pair / Front cover
RAL 7035 grey standard depth of 300 mm	RAL 7035 grey extended depth of 400 mm	RAL 9016 white standard depth of 300 mm	RAL 7035 grey reduced depth of 250 mm
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

BPZ-SS-1/300/SET/00	BPZ-SS-1/300/SET/00-W	BPZ-SS-1/400/SET/00	BPZ-SS-1/400/SET/00	BPZ-SS-2/3	BPZ-SS-2/3-W	BPZ-SS-2/250	BPZ-SS-2/400
119182	119186	119177	119178	293517	293518	119170	119169
BPZ-FS-400/1	BPZ-FS-400/1-W	BPZ-FS-400/1	BPZ-FS-400/1	BPZ-FS-400/2	BPZ-FS-400/2-W	BPZ-FS-400/2	BPZ-FS-400/2
293493	293494	293493	293493	293495	293496	293495	293495
BPZ-SS-1/300/SET/00	BPZ-SS-1/300/SET/00-W	BPZ-SS-1/400/SET/00	BPZ-SS-1/400/SET/00	BPZ-SS-2/3	BPZ-SS-2/3-W	BPZ-SS-2/250	BPZ-SS-2/400
119182	119186	119177	119178	293517	293518	119170	119169
BPZ-FS-600/1	BPZ-FS-600/1-W	BPZ-FS-600/1	BPZ-FS-600/1	BPZ-FS-600/2	BPZ-FS-600/2-W	BPZ-FS-600/2	BPZ-FS-600/2
293497	293498	293497	293497	293499	293500	293499	293499
BPZ-SS-1/300/SET/00	BPZ-SS-1/300/SET/00-W	BPZ-SS-1/400/SET/00	BPZ-SS-1/400/SET/00	BPZ-SS-2/3	BPZ-SS-2/3-W	BPZ-SS-2/250	BPZ-SS-2/400
119182	119186	119177	119178	293517	293518	119170	119169
BPZ-FS-800/1	BPZ-FS-800/1-W	BPZ-FS-800/1	BPZ-FS-800/1	BPZ-FS-800/2	BPZ-FS-800/2-W	BPZ-FS-800/2	BPZ-FS-800/2
293501	293501	293501	293501	293503	293504	293503	293503
BPZ-SS-1/300/SET/00	BPZ-SS-1/300/SET/00-W	BPZ-SS-1/400/SET/00	BPZ-SS-1/400/SET/00	BPZ-SS-2/3	BPZ-SS-2/3-W	BPZ-SS-2/250	BPZ-SS-2/400
119182	119186	119177	119178	293517	293518	119170	119169
BPZ-FS-1000/1	BPZ-FS-1000/1-W	BPZ-FS-1000/1	BPZ-FS-1000/1	BPZ-FS-1000/2	BPZ-FS-1000/2-W	BPZ-FS-1000/2	BPZ-FS-1000/2
293505	293505	293505	293505	293507	293508	293507	293507

BPZ-SS-1/300/SET/00	BPZ-SS-1/300/SET/00-W	BPZ-SS-1/400/SET/00	BPZ-SS-
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Description**BP-F-..., IP30 (IP31), enclosure depth 250 / 300 / 400 mm**

- Complete cabinets prepared for ProfiSNAP installation system
- Degree of protection IP30
- Impact resistance IK08
- Protection class I (protective earth)
- Cable entry / flange plate individually configurable
- Quick and easy change of the hinge direction, door opening angle ~160°
- Standard plastic cam lock or Swing handle closing mechanism
- Additional wall fixing to avoid tilting
- Enclosure made from powder-coated sheet steel, RAL 7035 / RAL 9016
- Variable interior installation either with "Mounting base frame" or "Mounting side panel" (MSW)

Technical data**BP-F...****Electrical**

Type conforms to	IEC/EN 62208
Protection class	I (protective earth)
Degree of protection	IP30 (closed version with door/flansche) IP31 (special add-on canopy BPZ-CNP-...-IP31 required) IP2XC (door open, user access level has to be closed properly with front covers)
Impact resistance	IK08
Rated operational voltage	415 VAC / 50 Hz
Rated current	Max. 630 A (depending on the type of incoming circuit breaker or the busbar system being used)

Earthing concept for the enclosure

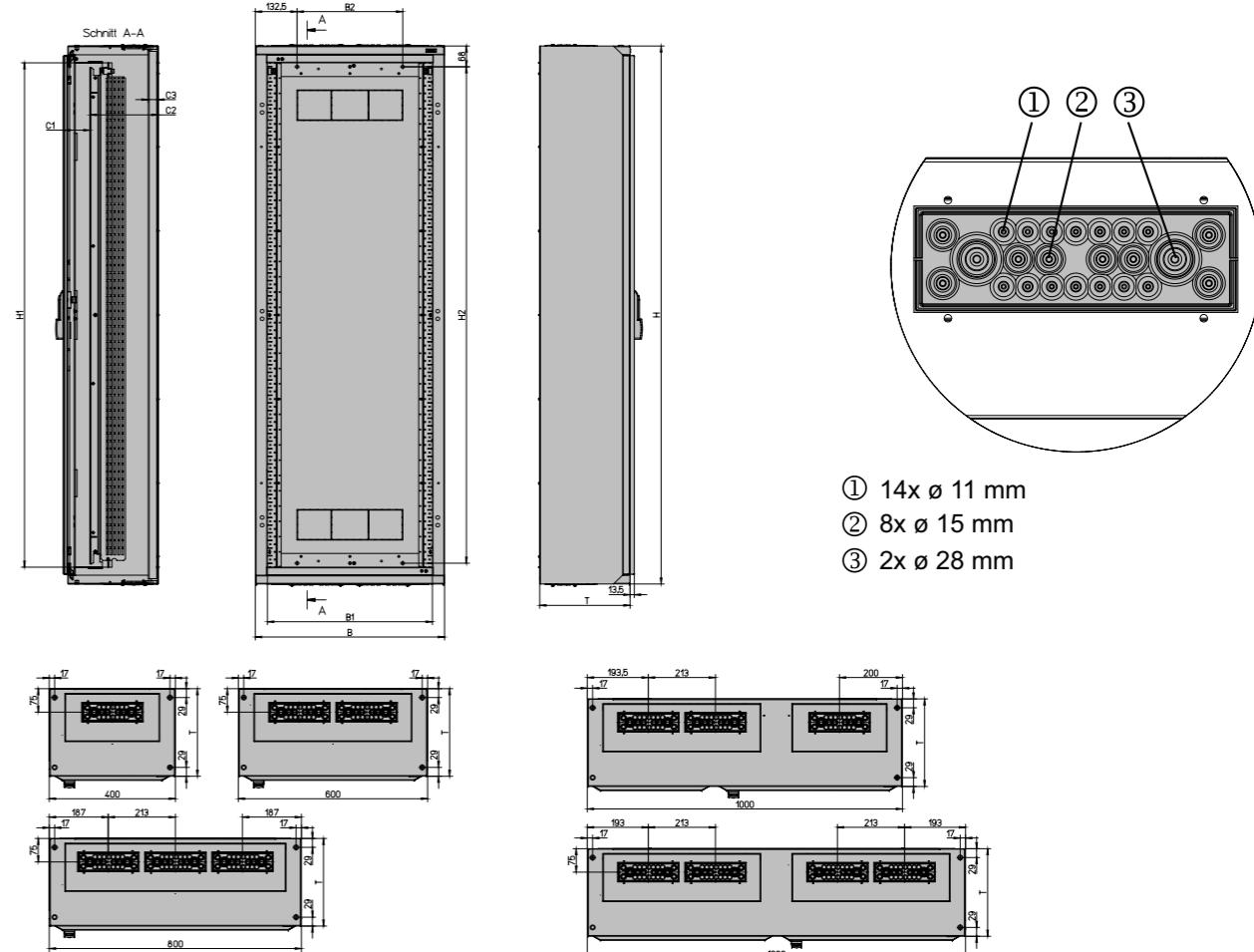
Main earthing	By means of M8 welding bolts
Door earthing	By means of M6 welding bolts

The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1.

For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35° C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc.to IEC/TR 60890).

Mechanical

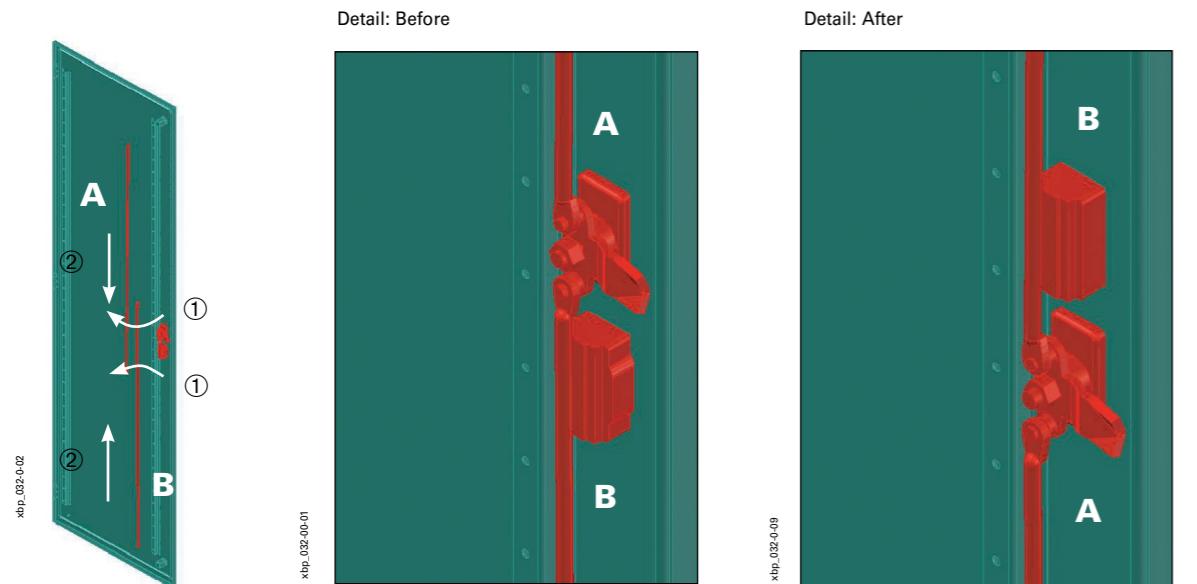
Enclosure	Excellent stability thanks to the welded construction
Material	Sheet steel 1 mm, phosphated and polyester powder coated (structured) with corrosion protection
Colour	Traffic white, RAL 9016 / Light grey RAL 7035
Door	Hinges on the inside, door opening angle ~160° (in case of lateral alignment ~100°) Doors with transparent window individually configurable, hinged either left or right width 1000 / 1200 mm in double-wing design
Type	Flexible interior fitting with installation units ProfiSNAP on base frame or „mounting side panel“ (MSW) Mounting base frame: multi-layer construction, installation directly in the enclosure, robust and structured Mounting side panel (MSW): removable mounting insert, external installation, fast and reliable
Locking mechanism	Two-point locking mechanism with standard cam lock (plastic), optional metal lock with standard locking or two-way key bit Three-point locking mechanism with swing handle and rod drive (optional lock cylinder as accessory)
Cable entry	Complete cabinet equipped with two-component membrane flanges on both sides, single cabinets are individually configurable Closed cable entry / flange plate, with two-component flanges equipped or prepared for F3A-flanges
Ambient condition	Indoor installation (Assembly with/without plinth with additional fixing to a wall, „stand-alone“ not recommended) Max. ambient temperature +40° C Min. ambient temperature -5° C
Halogen-free, RoHS	< 1%, yes
Accessories	Several base versions with height 100 / 200 mm, other locking mechanism for door closing Transparent doors, add-on canopy (IP31), wall fixing brackets
Delivered as	Complete cabinet prepared for „Mounting base frame“ or „MSW“ (depending on interior fitting all corresponding parts for „Mounting base frame“ respectively „MSW“ have to be ordered separately)

Dimensions (mm)**BP-F-..., IP30 (IP31), enclosure depth 250 / 300 / 400 mm**

Type	Overall dimensions			Internal dimensions (front plate)		Wall mounting (Enclosure directly)		PSN-MSW			PSN-FPS			Pv [W] (ΔT 20K)	Pv [W] (ΔT 35K)
	Width B	Height H	Depth T	Width B1	Height H1	Width B2	Height H2	C1	C2	C3	C1	C2	C3		
BP-F-400/17/3	400	1760	286.5	320	1650	135	1624	83	215	110	185	30	84	168	
BP-F-400/17/3	400	2060	286.5	320	1950	135	1924	83	215	110	185	30	101	202	
BP-F-600/17/3	600	1760	286.5	520	1650	335	1624	83	215	110	185	30	126	253	
BP-F-600/17/3	600	2060	286.5	520	1950	335	1924	83	215	110	185	30	147	294	
BP-F-800/17/3	800	1760	286.5	720	1650	535	1624	83	215	110	185	30	173	347	
BP-F-800/17/3	800	2060	286.5	720	1950	535	1924	83	215	110	185	30	189	380	
BP-F-1000/17/3	1000	1760	286.5	920	1650	735	1624	83	215	110	185	30	206	413	
BP-F-1000/17/3	1000	2060	286.5	920	1950	735	1924	83	215	110	185	30	222	445	
BP-F-1200/17/3	1200	1760	286.5	1120	1650	935	1624	83	215	110	185	30	237	474	
BP-F-1200/17/3	1200	2060	286.5	1120	1950	935	1924	83	215	110	185	30	259	520	
BP-F-400/20/2,5	400	2060	236.5	320	1950	135	1924	78	170	-	-	-	84	168	
BP-F-600/20/2,5	600	2060	236.5	520	1950	335	1924	78	170	-	-	-	127	255	
BP-F-800/20/2,5	800	2060	236.5	720	1950	535	1924	78	170	-	-	-	177	355	
BP-F-1000/20/2,5	1000	2060	236.5	920	1950	735	1924	78	170	-	-	-	205	410	
BP-F-1200/20/2,5	1200	2060	236.5	1120	1950	935	1924	78	170	-	-	-	240	481	
BP-F-400/20/4	400	2060	386.5	320	1950	135	1924	98	300	-	-	-	30	128	
BP-F-600/20/4	600	2060	386.5	520	1950	335	1924	98	300	-	-	-	30	183	
BP-F-800/20/4	800	2060	386.5	720	1950	535	1924	98	300	-	-	-	30	217	
BP-F-1000/20/4	1000	2060	386.5	920	1950	735	1924	98	300	-	-	-	30	257	
BP-F-1200/20/4	1200	2060	386.5	1120	1950	935	1924	98	300	-	-	-	30	292	
														585	

Change of clip down handle for change of direction of opening of door

1. Demounting of rods – removing from lock mechanism
2. Demounting of rods – taking out from fastening lugs

**Sheet Steel Doors, BPZ-DS and Transparent Doors BPZ-DT**

- Front-mounted
- Quick mounting and removing of the door
- Right or left hinged
- Opening angle ~160°
- 1-point lock through rotary lock, 3-point lock through clip-down handle
- Material: Sheet steel, powder-coated, RAL 7035 or RAL 9016
- BPZ-DT: Sheet steel framework incl. ESG 4 mm

• Weight (kg) BPZ-DS:

Width (mm)	400	600	800	600+400	600+600
Height 1700	6.2	9	11.8	9+6.5	9+9.1
Height 2000	7.3	10.6	13.8	10.6+7.7	10.6+10.6

• Weight (kg) BPZ-DT:

Width (mm)	400	600	800	600+400	600+600
Height 1700	8.1	13.3	16	13.3+10.9	13.3+16.9
Height 2000	9.4	15.6	18.6	15.6+12.7	15.6+19.8

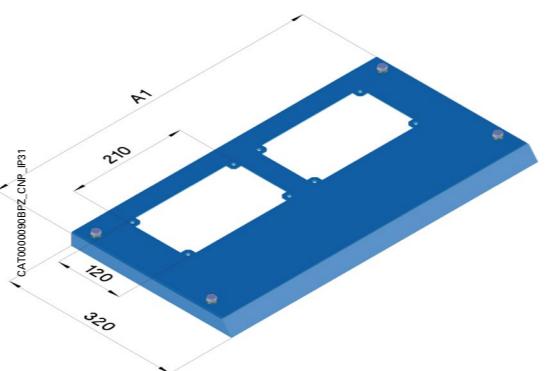
• Delivered as: 1 Door

Add-on canopy for IP31 applications, BPZ-CNP

- Intended to be used for floor-standing distribution boards to upgrade from IP30 to IP31
- Possible for new installations as well as for retrofit in existing applications
- Material: Sheet steel, powder-coated, RAL 7035 or RAL 9016, thickness 1.25 mm
- Delivered as: 1 canopy, F3A-XP flanges, fixing material

Dimensions (mm)

Type	Outside width	incl. F3A-XP flange
A1		
BP-TBP1-400-F3A-IP31	405	Yes (1 pc.)
BP-TBP1-600-F3A-IP31	605	Yes (2 pcs.)
BP-TBP1-800-F3A-IP31	805	Yes (3 pcs.)
BP-TBP1-1000-F3A-IP31	1005	Yes (3 pcs.)
BP-TBP1-1200-F3A-IP31	1205	Yes (4 pcs.)



xEnergy Distribution Boards

Distribution boards for special applications, BP-MN / BP-VF

xEnergy
Basic
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Width [mm]	Height int. [mm]	Height bottom closed [mm]	Open distribution board depth 175 mm welded construction / IP2XC wall-mounted / floor-standing shift-back flange on top / incl. MSW mounting insert BPZ-MES	Open distribution board depth 175 mm welded construction / IP2XC wall-mounted / floor-standing shift-back flange on top / bottom closed / without door	Plinth 100 mm [Plinth 200 mm] Side parts 1 pair / Front cover
RAL 7035 grey	RAL 7035 grey	RAL 7035 grey			
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	unit = 1 pc.	unit = 1 pc.	unit = 1 pc.

BP-MN-..., IP2XC - fully assembled

400 (13MU/row)	700	650	-	-	-
	1000	950	-	-	-
	1200	1150	-	-	-
600 (24MU/row)	400	350	BP-MN-MES-600/4-ST 143130	BP-MN-600/4/1,75 119197	BPZ-MN-SS/1/175 119214
	700	650	BP-MN-MES-600/7-ST 143133	BP-MN-600/7/1,75 119198	[BPZ-MN-SS/2/175] [119215]
	1000	950	BP-MN-MES-600/10-ST 143136	BP-MN-600/10/1,75 119199	BPZ-MN-FS-600/1 120685
	1200	1150	BP-MN-MES-600/12-ST 143139	BP-MN-600/12/1,75 119200	[BPZ-MN-FS-600/2] [120686]
	1500	1450	BP-MN-MES-600/15-ST 143142	BP-MN-600/15/1,75 119201	
	1700	1650	-	BP-MN-600/17/1,75 119202	
	2000	1950	-	BP-MN-600/20/1,75 119203	
800 (35MU/row)	1000	950	BP-MN-MES-800/10-ST 143145	BP-MN-800/10/1,75 119204	BPZ-MN-SS/1/175 119214
	1200	1150	BP-MN-MES-800/12-ST 143148	BP-MN-800/12/1,75 119205	[BPZ-MN-SS/2/175] [119215]
	1500	1450	BP-MN-MES-800/15-ST 143151	BP-MN-800/15/1,75 119206	BPZ-MN-FS-800/1 120687
	1700	1650	-	BP-MN-800/17/1,75 119207	[BPZ-MN-FS-800/2] [120688]
	2000	1950	-	BP-MN-800/20/1,75 119208	

xEnergy
Basic
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Outdoor distribution board welded construction / IP44/IK10 stand-alone application mounted on base A-KU [applicable polyester base]

MSW mounting insert especially designed for BP-MN / BP-VF incl. Front covers, DIN-rails (distance between rails mainly 150 mm)

RAL 7035 grey	Empty	RAL 7035 grey
Cat. No. per unit	unit = 1 pc.	Cat. No. per unit

BP-MN-..., IP2XC - fully assembled	BPZ-MES-400/7-ST 119307	
BP-VF-400/10 125830	[A-KU3] [274823]	BPZ-MES-400/10-ST 119308
BP-VF-400/12 125833	[A-KU3] [274823]	BPZ-MES-400/12-ST 119309
		BPZ-MES-600/4-ST 119310
		BPZ-MES-600/7-ST 119311
BP-VF-600/10 125831	[A-KU3] [274823]	BPZ-MES-600/10-ST 119312
BP-VF-600/12 125834	[A-KU3] [274823]	BPZ-MES-600/12-ST 119313
		BPZ-MES-600/15-ST 119314
		BPZ-MES-600/17-ST 119315
		BPZ-MES-600/20-ST 119316
BP-VF-800/10 125832	[A-KU3] [274823]	BPZ-MES-800/10-ST 119317
BP-VF-800/12 125835	[A-KU3] [274823]	BPZ-MES-800/12-ST 119318
		BPZ-MES-800/15-ST 119319
		BPZ-MES-800/17-ST 119320
		BPZ-MES-800/20-ST 119321

xEnergy Distribution Boards

Distribution boards for special applications, BP-MN / BP-VF

xEnergy Distribution Boards

Distribution boards for special applications, BP-MN / BP-VF

xEnergy
Basic
Sheet 3/4

Width [mm]	Height int. [mm]	Height bottom closed [mm]	Open distribution board depth 175 mm welded construction / IP2XC wall-mounted / floor-standing shift-back flange on top / bottom closed / without door incl. MSW mounting insert BPZ-MES	Open distribution board depth 175 mm welded construction / IP2XC wall-mounted / floor-standing shift-back flange on top / bottom closed / without door	Plinth 100 mm [Plinth 200 mm] Side parts 1 pair / Front cover
RAL 7035 grey			RAL 7035 grey	RAL 7035 grey	
Cat. No. per unit			Cat. No. per unit	Cat. No. per unit	unit = 1 pc.

BP-MN-..., IP2XC - fully assembled

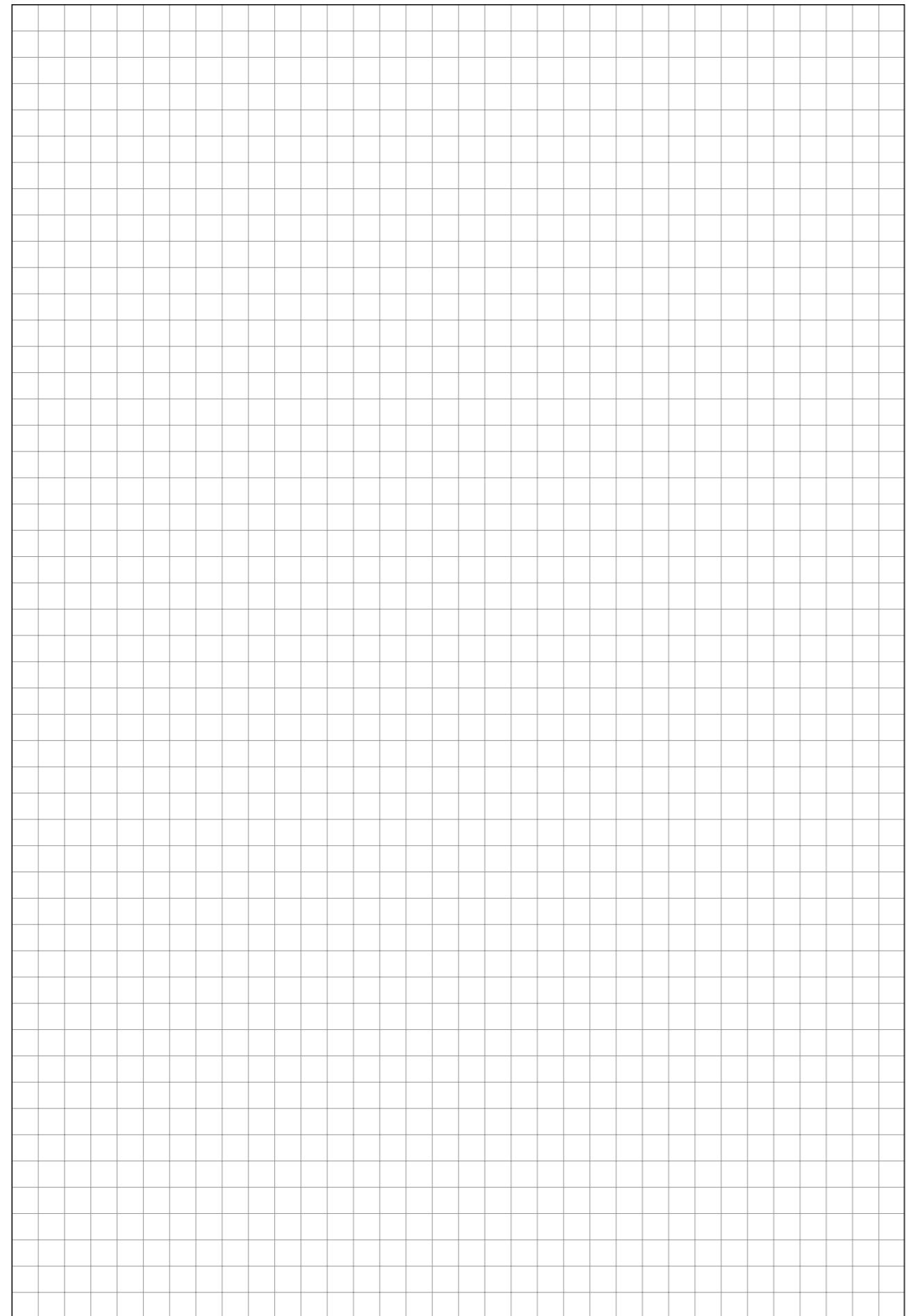
1000 (46MU/row)	1000	950	BP-MN-MES-1000/10-ST	BP-MN-1000/10/1.75	BPZ-MN-SS/1/175
			143154	119209	119214
	1200	1150	BP-MN-MES-1000/12-ST	BP-MN-1000/12/1.75	[BPZ-MN-SS/2/175]
			143157	119210	[119215]
	1500	1450	BP-MN-MES-1000/15-ST	BP-MN-1000/15/1.75	BPZ-MN-FS-1000/1
			143160	119211	[BPZ-MN-FS-1000/2]
	1700	1650	-	BP-MN-1000/17/1.75	[120690]
				119212	
	2000	1950	-	BP-MN-1000/20/1.75	
				119213	
1200 (57MU/row)	1200	1150	-	-	-
	1500	1450	-	-	-
	1700	1650	-	-	-
	2000	1950	-	-	-

xEnergy
Basic
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Width [mm]	Height [mm]	Depth [mm]	Open distribution board depth 175 mm welded construction / IP2XC wall-mounted / floor-standing shift-back flange on top / bottom closed / without door incl. MSW mounting insert BPZ-MES	Outdoor distribution board welded construction / IP44/IK10 stand-alone application mounted on base A-KU [applicable polyester base]	MSW mounting insert especially designed for BP-MN / BP-VF incl. Front covers, DIN-rails (distance between rails mainly 150 mm)
RAL 7035 grey	Empty		RAL 7035 grey	RAL 7035 grey	

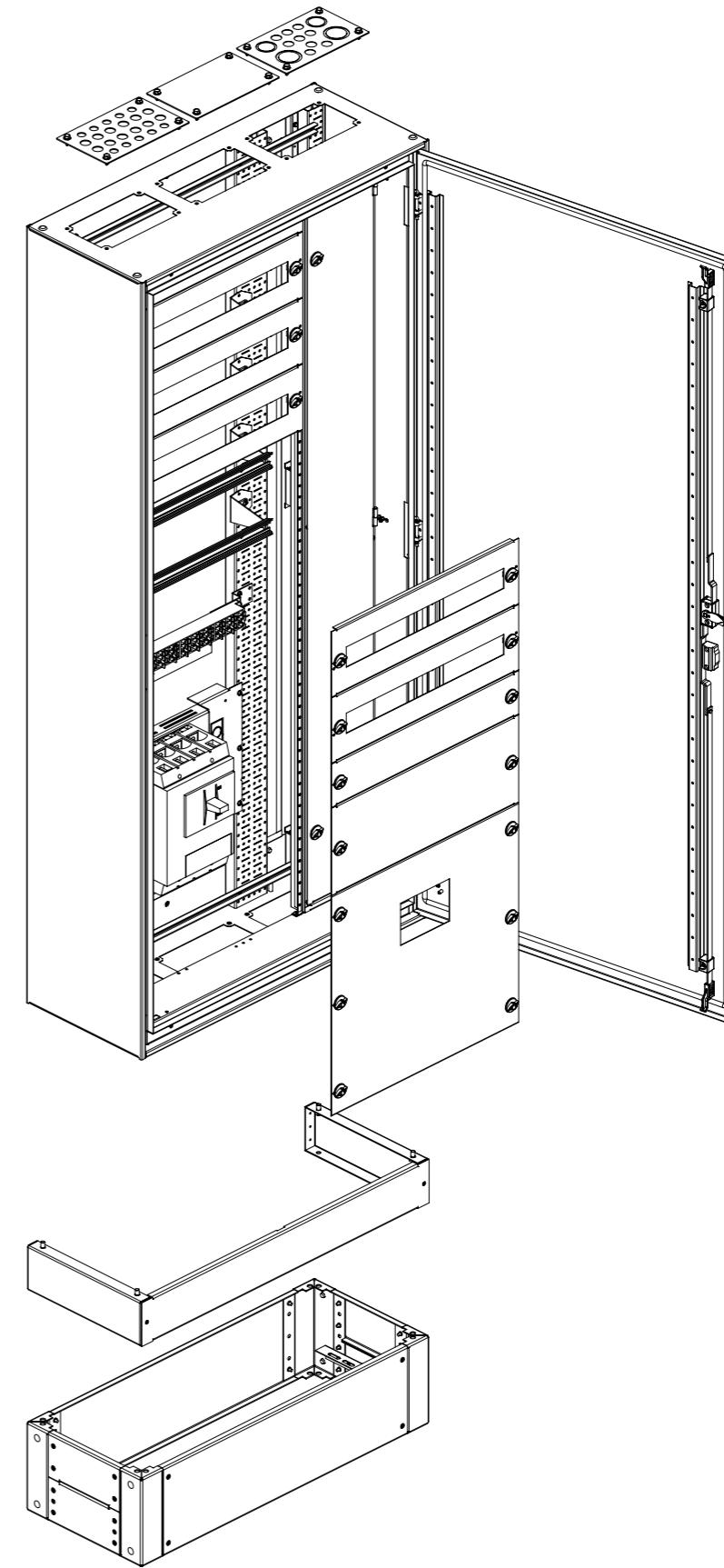
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit
unit = 1 pc.	unit = 1 pc.	unit = 1 pc.

BPZ-MES-1000/10-ST
119322
BPZ-MES-1000/12-ST
119323
BPZ-MES-1000/15-ST
119324
BPZ-MES-1000/17-ST
119325
BPZ-MES-1000/20-ST
119326
BPZ-MES-1200/12-ST
119327
BPZ-MES-1200/15-ST
119328
BPZ-MES-1200/17-ST
119329
BPZ-MES-1200/20-ST
119330



System Overview

BPM-F-..., IP55



xEnergy Distribution Boards

Floor-standing distribution board BPM-F-..., IP55



Width [mm]	Height [mm]	Height int. [mm]	Pre-assembled configuration individual installation / Prepared for F3A-flanges on top/bottom 7	Pre-assembled configuration installation back frame / Prepared for F3A-flanges on top/bottom / Door with clip-down handle	Pre-assembled configuration individual installation / Prepared for F3A-flanges on top/bottom / Without door / BPZ-SH-L / Extended depth of 400 mm Dedicated as add-on connection cabinet Standard depth of 320 mm
			RAL 7035 grey Empty	RAL 7035 grey Empty	RAL 7035 grey Empty
			Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

BPM-F-..., IP55 - fully assembled

400 (13MU/row)	1760	1650	BPM-F-400/17-P 111047	BPM-F-400/17/4-P 193209	-
	2060	1950	BPM-F-400/20-P 111048	BPM-F-400/20/4-P 193210	-
600 (24MU/row)	1760	1650	BPM-F-600/17-P 111049	BPM-F-600/17/4-P 193211	BPM-F-600/17-F 174362
	2060	1950	BPM-F-600/20-P 111050	BPM-F-600/20/4-P 193212	BPM-F-600/20-F 174363
800 (35MU/row)	1760	1650	BPM-F-800/17-P 111051	BPM-F-800/17/4-P 193213	BPM-F-800/17-F 174367
	2060	1950	BPM-F-800/20-P 111052	BPM-F-800/20/4-P 193214	BPM-F-800/20-F 174368
1000 (46MU/row)	1760	1650	BPM-F-1000/17-P 111053	BPM-F-1000/17/4-P 193215	BPM-F-1000/17-F 174370
	2060	1950	BPM-F-1000/20-P 111054	BPM-F-1000/20/4-P 193216	BPM-F-1000/20-F 174371
1200 (57MU/row)	1760	1650	BPM-F-1200/17-P 111055	BPM-F-1200/17/4-P 193217	BPM-F-1200/17-F 193249
	2060	1950	BPM-F-1200/20-P 111056	BPM-F-1200/20/4-P 193218	BPM-F-1200/20-F 193250

xEnergy Distribution Boards

Floor-standing distribution board BPM-F-..., IP55



Sheet metal door / Clip-down handle	Sheet metal door (transparent) / Clip-down handle	Cable arrangement / Plinth 100 mm / Cable strain-relief rail / Standard depth of 320 mm	Installation back frame / Frontplate support	MSW installation / Mounting Side Wall (MSW) with standard depth	MSW installation / Mounting Side Wall (MSW) with extended depth
RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey

Cat. No. per unit unit = 1 pc.					
-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------

-	-	BPZ-KR41/320 116285	BPZ-KR41/400 193219	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502140
-	-	BPZ-KFS-400 116293	BPZ-KFS-400 116293	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141
BPZ-DMS-600/17-P 174342	BPZ-DMT-600/17-P 173585	BPZ-KR61/320 116287	BPZ-KR61/400 193220	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502140
BPZ-DMS-600/20-P 174343	BPZ-DMT-600/20-P 173586	BPZ-KFS-600 116294	BPZ-KFS-600 116294	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141
BPZ-DMS-800/17-P 174347	BPZ-DMT-800/17-P 173592	BPZ-KR81/320 187910	BPZ-KR81/400 193221	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502140
BPZ-DMS-800/20-P 174348	BPZ-DMT-800/20-P 173593	BPZ-KFS-800 187892	BPZ-KFS-800 187892	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141
BPZ-DMS-400/17-L + 193251 + 193253	BPZ-DMT-400/17-L + 193257 + 193259	BPZ-KR101/320 187890	BPZ-KR101/400 193222	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502140
BPZ-DMS-600/20-R-P 193256	BPZ-DMT-600/20-R-P 193260 + 193262	BPZ-KFS-1000 187893	BPZ-KFS-1000 187893	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141
BPZ-DMS-600/17-L + 193252 + 193253	BPZ-DMT-600/17-R-P 193258 + 193259	BPZ-KR121/320 116291	BPZ-KR121/400 193223	PSN-FPS/17 EP-502147	PSN-MSW/17 EP-502140
BPZ-DMS-600/20-L + 193255 + 193256	BPZ-DMT-600/20-L + 193261 + 193262	BPZ-KFS-1200 116296	BPZ-KFS-1200 116296	PSN-FPS/20 EP-502148	PSN-MSW/20 EP-502141

xEnergy Distribution Boards

Floor-standing distribution board BPM-F-..., IP55



Width [mm]	Height [mm]	Height int. [mm]	Plinth 100 mm Side parts 1 pair / Front cover	Plinth 100 mm Side parts 1 pair blind-open for cable guiding between the sections / Front cover	Plinth 100 mm Side parts 1 pair open-open for cable guiding between the sections / Front cover					
			RAL 7035 grey standard depth of 320 mm	RAL 9016 white	RAL 7035 grey standard depth of 320 mm					
			Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.					
BPM-F-..., IP55 - fully assembled										
400 (13MU/row)	1760	1650	BPZ-SS-1/320 112348 BPZ-FS-400/1	BPZ-SS-1/320/SET/BO 112350 BPZ-FS-400/1-W	BPZ-SS-1/320/SET/BO-W 119179 BPZ-FS-400/1-W	BPZ-SS-1/320/SET/00 119183 BPZ-FS-400/1	BPZ-SS-1/320/SET/00-W 119180 BPZ-FS-400/1-W	BPZ-SS-1/320/SET/00 119184		
	2060	1950	293493	293494	293493	293493	293493	293494		
600 (24MU/row)	1760	1650	BPZ-SS-1/320 112348 BPZ-FS-600/1	BPZ-SS-1/320/SET/BO 112350 BPZ-FS-600/1-W	BPZ-SS-1/320/SET/BO-W 119179 BPZ-FS-600/1-W	BPZ-SS-1/320/SET/00 119183 BPZ-FS-600/1	BPZ-SS-1/320/SET/00 119180 BPZ-FS-600/1	BPZ-SS-1/320/SET/00-W 119184 BPZ-FS-600/1-W		
	2060	1950	293497	293498	293497	293498	293497	293498		
800 (35MU/row)	1760	1650	BPZ-SS-1/320 112348 BPZ-FS-800/1	BPZ-SS-1/320/SET/BO 112350 BPZ-FS-800/1-W	BPZ-SS-1/320/SET/BO-W 119179 BPZ-FS-800/1-W	BPZ-SS-1/320/SET/00 119183 BPZ-FS-800/1	BPZ-SS-1/320/SET/00 119180 BPZ-FS-800/1	BPZ-SS-1/320/SET/00-W 119184 BPZ-FS-800/1-W		
	2060	1950	293501	293502	293502	293501	293501	293502		
1000 (46MU/row)	1760	1650	BPZ-SS-1/320 112348 BPZ-FS-1000/1	BPZ-SS-1/320/SET/BO 112350 BPZ-FS-1000/1-W	BPZ-SS-1/320/SET/BO-W 119179 BPZ-FS-1000/1-W	BPZ-SS-1/320/SET/00 119183 BPZ-FS-1000/1	BPZ-SS-1/320/SET/00 119180 BPZ-FS-1000/1	BPZ-SS-1/320/SET/00-W 119184 BPZ-FS-1000/1-W		
	2060	1950	293505	293506	293506	293505	293505	293506		
1200 (57MU/row)	1760	1650	BPZ-SS-1/320 112348 BPZ-FS-1200/1	BPZ-SS-1/320/SET/BO 112350 BPZ-FS-1200/1-W	BPZ-SS-1/320/SET/BO-W 119179 BPZ-FS-1200/1-W	BPZ-SS-1/320/SET/00 119183 BPZ-FS-1200/1	BPZ-SS-1/320/SET/00 119180 BPZ-FS-1200/1	BPZ-SS-1/320/SET/00-W 119184 BPZ-FS-1200/1-W		
	2060	1950	293509	293510	293510	293509	293509	293510		

xEnergy Basic Sheet 3/4

xEnergy Basic Sheet 4/4

xEnergy Distribution Boards

Floor-standing distribution board BPM-F-..., IP55



Plinth 200 mm Side parts 1 pair / Front cover	Cable arrangement plinth 200 mm / cable strain-relief rail	Internal cable duct as complete kit for shared composition incl. mounting pillars, compartment door and protective cover			
RAL 7035 grey standard depth of 320 mm	RAL 9016 white	RAL 7035 grey standard depth of 320 mm			
Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.			
BPZ-SS-2/320 112349 BPZ-FS-400/2 293495	BPZ-SS-2/320-W 112351 BPZ-FS-400/2-W 293496	BPZ-KR42/320 116286 BPZ-KFS-400 116293	BPZ-KR42/400 193224 BPZ-KFS-400 116293	-	-
BPZ-SS-2/320 112349 BPZ-FS-600/2 293499	BPZ-SS-2/320-W 112351 BPZ-FS-600/2-W 293500	BPZ-KR62/320 116288 BPZ-KFS-600 116294	BPZ-KR62/400 193225 BPZ-KFS-600 116294	-	-
BPZ-SS-2/320 112349 BPZ-FS-800/2 293503	BPZ-SS-2/320-W 112351 BPZ-FS-800/2-W 293504	BPZ-KR82/320 187911 BPZ-KFS-800 187892	BPZ-KR82/400 193226 BPZ-KFS-800 187892	PSN-ICD-200/17-BL EP-502493 PSN-ICD-200/20-BL EP-502494	-
BPZ-SS-2/320 112349 BPZ-FS-1000/2 293507	BPZ-SS-2/320-W 112351 BPZ-FS-1000/2-W 293508	BPZ-KR102/320 187891 BPZ-KFS-1000 187893	BPZ-KR102/400 193227 BPZ-KFS-1000 187893	PSN-ICD-400/17-BL EP-502496 PSN-ICD-400/20-BL EP-502497	-
BPZ-SS-2/320 112349 BPZ-FS-1200/2 293511	BPZ-SS-2/320-W 112351 BPZ-FS-1200/2-W 293512	BPZ-KR122/320 116292 BPZ-KFS-1200 116296	BPZ-KR122/400 193228 BPZ-KFS-1200 116296	-	-

Description**BPM-F-..., IP55, enclosure depth 320 / 400 mm**

- Complete cabinets prepared for ProfiSNAP installation system
- Degree of protection IP55
- Impact resistance IK10
- Protection class I (protective earth)
- Cable entry prepared for F3A flange
- Quick and easy change of the hinge direction, door opening angle ~100°
- Two-way key bit or swing handle
- Additional wall fixing to avoid tilting
- Enclosure made from powder-coated sheet steel, RAL 7035 / RAL 9016
- Add-on connection at depth 400 mm provided
- Variable interior fitting either with "Mounting base frame" or "Mounting side panel" (MSW)

Technical data**BPM-F...****Electrical**

Type conforms to	IEC/EN 62208
Protection class	I (protective earth)
Degree of protection	IP55 (closed version with door/flansche) IP2XC (door open, user access level has to be closed properly with front covers)
Impact resistance	IK10
Rated operational voltage	415 VAC / 50 Hz
Rated current	Max. 630 A (depending on the type of incoming circuit breaker or the busbar system being used)

Earthing concept for the enclosure

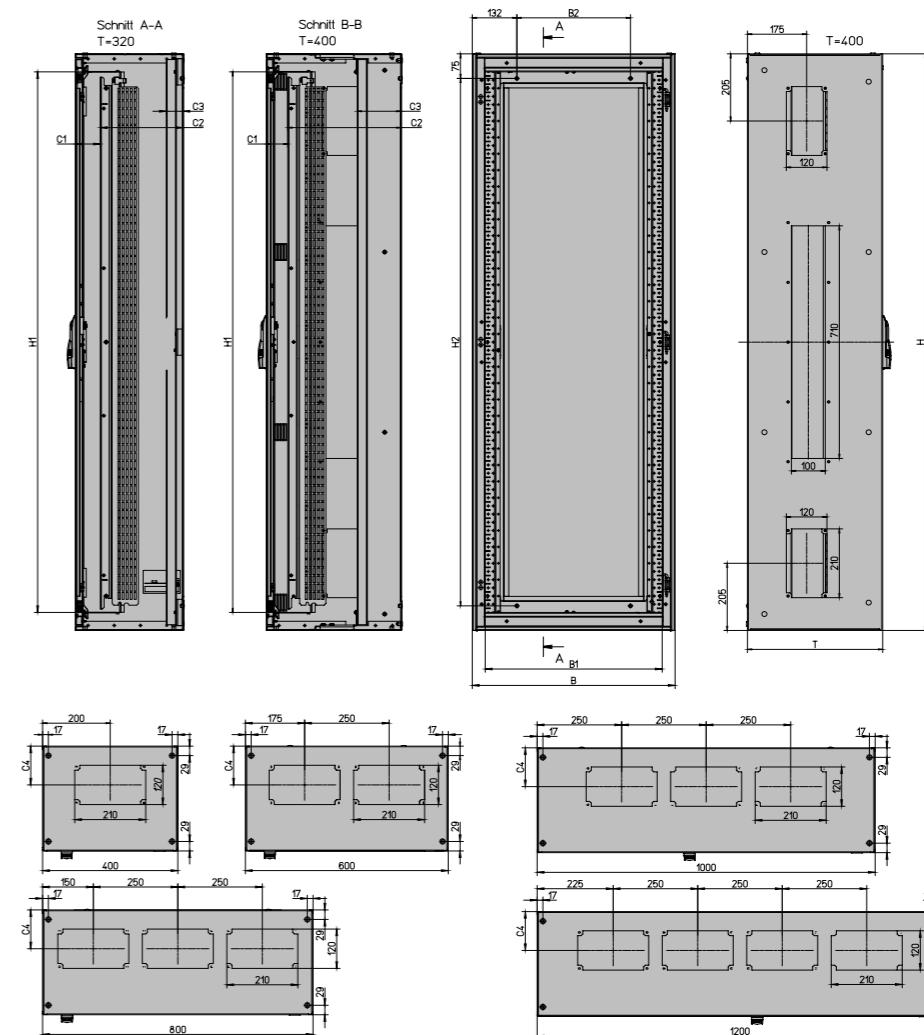
Main earthing	By means of M8 welding bolts
Door earthing	By means of M6 welding bolts

The permissible temperature increases for switchgear assemblies with a rated current of up to 630 A can be evaluated in accordance with section 10.10.4.2 of IEC/EN 61439-1.

For the maximum permissible heat dissipation for all devices inside the distribution board at an ambient temperature of 35° C and ΔT of 20 K / 35 K at an enclosure height of 75 %, please refer to the table on enclosure dimensions; (calculation method acc.to IEC/TR 60890).

Mechanical

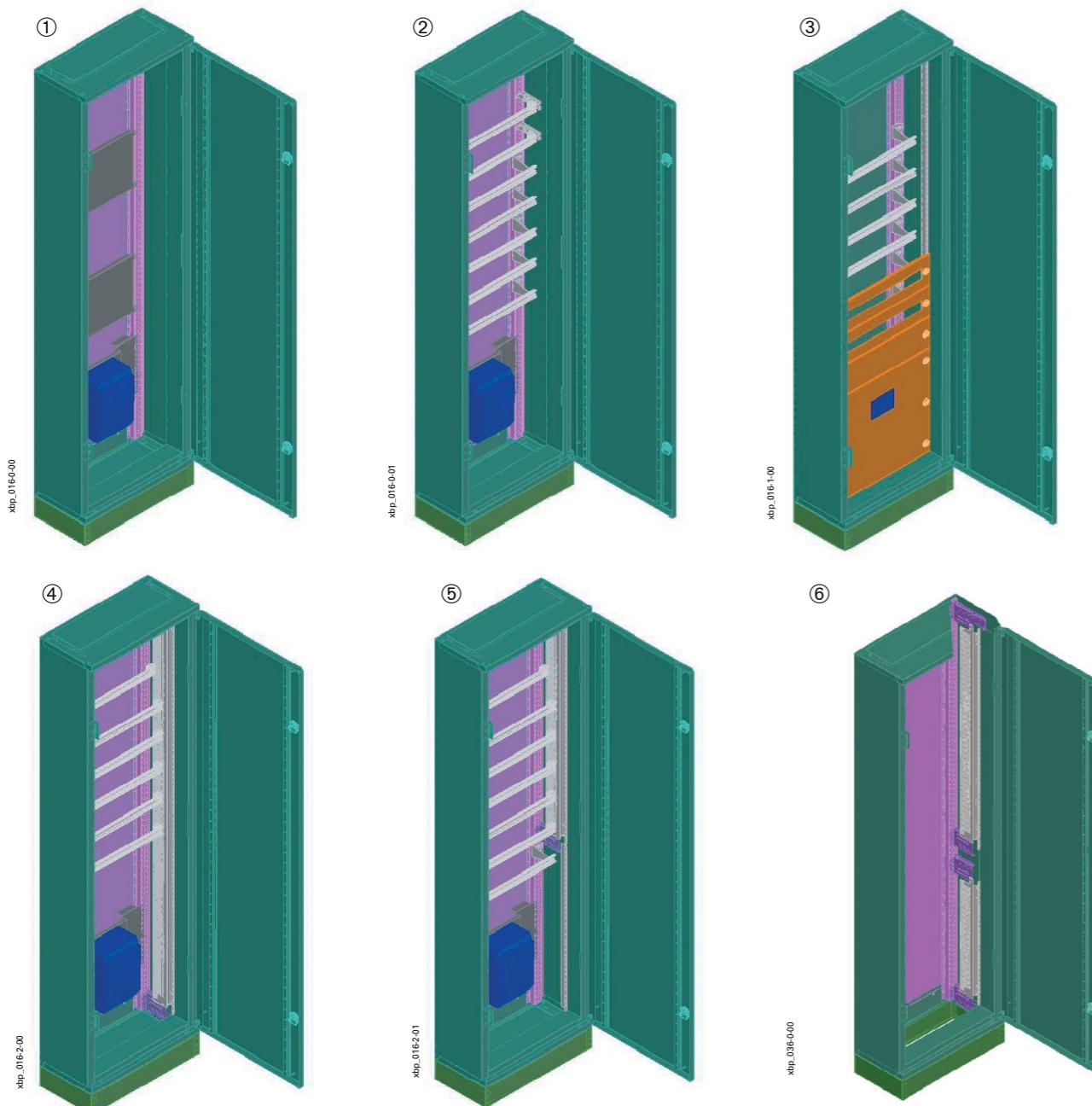
Enclosure	Excellent stability thanks to the welded construction
Material	Sheet steel 1.25 mm, phosphated and polyester powder coated (structured) with corrosion protection
Colour	Traffic white, RAL 9016 / Light grey RAL 7035
Door	With encircling foamed sealing, hinges on the inside, door opening angle ~100° Doors with transparent window individually configurable, hinged either left or right width 1000 / 1200 mm in double-wing design
Type	Flexible interior fitting with installation units ProfiSNAP on base frame or „mounting side panel“ (MSW) Mounting base frame: multi-layer construction, installation directly in the enclosure, robust and structured Mounting side panel (MSW): removable mounting insert, external installation, fast and reliable
Locking mechanism	Three-point standard locking with two-way key bit (metal) Three-point locking mechanism with swing handle and rod drive (optional lock cylinder as accessory)
Cable entry	Open, prepared for F3A flanges on both sides (top+bottom) Lateral F3A cut-outs (top+bottom) for additional cable entry or cross-wiring at a depth of 400 mm
Busbar system	Prepared for incorporating a continuous busbar system over several sections with depth 400 mm Generous cut-outs left/right (closed with blind plates when delivered)
Ambient condition	Indoor installation (Assembly with/without plinth with additional fixing to a wall, „stand-alone“ not recommended) Max. ambient temperature +40° C Min. ambient temperature -5° C
Halogen-free, RoHS	< 1%, yes
Accessories	Several base versions or cable arrangement plinths with height 100 / 200mm, other locking mechanism for door closing, transparent doors, wall fixing brackets
Delivered as	Complete cabinet prepared for „Mounting base frame“ or „MSW“ (depending on interior fitting all corresponding parts for „Mounting base frame“ respectively „MSW“ have to be ordered separately)

Dimensions (mm)**BPM-F-..., IP55, enclosure depth 320 / 400 mm**

Type	Overall dimensions			Internal dimensions		Wall mounting (front plate)			PSN-MSW (Enclosure directly)			PSN-FPS			Pv [W]	Pv [W]
	Width B	Height H	Depth T	Width B1	Height H1	Width B2	Height H2	C1	C2	C1	C2	C3	C4	(ΔT 20K)	(ΔT 35K)	
BPM-F-400/17	400	1760	320	320	1650	136	1610	62-92	225-255	112	205	49	118	91	182	
BPM-F-400/20	400	2060	320	320	1950	136	1910	62-92	225-255	112	205	49	118	106	213	
BPM-F-600/17	600	1760	320	520	1650	336	1610	62-92	225-255	112	205	49	118	132	264	
BPM-F-600/20	600	2060	320	520	1950	336	1910	62-92	225-255	112	205	49	118	155	311	
BPM-F-800/17	800	1760	320	720	1650	536	1610	62-92	225-255	112	205	49	118	183	367	
BPM-F-800/20	800	2060	320	720	1950	536	1910	62-92	225-255	112	205	49	118	195	391	
BPM-F-1000/17	1000	1760	320	920	1650	736	1610	62-92	225-255	112	205	49	118	212	425	
BPM-F-1000/20	1000	2060	320	920	1950	736	1910	62-92	225-255	112	205	49	118	229	459	
BPM-F-1200/17	1200	1760	320	1120	1650	936	1610	62-92	225-255	112	205	49	118	244	489	
BPM-F-1200/20	1200	2060	320	1120	1950	936	1910	62-92	225-255	112	205	49	118	269	539	
BPM-F-400/17/4-P	400	1760	400	320	1650	136	1610	62-87	310-335	62-112	335-285	130-180	100	114	228	
BPM-F-400/20/4-P	400	2060	400	320	1950	136	1910	62-87	310-335	62-112	335-285	130-180	100	128	258	
BPM-F-600/17/4-P	600	1760	400	520	1650	336	1610	62-87	310-335	62-112	335-285	130-180	100	158	318	
BPM-F-600/20/4-P	600	2060	400	520	1950	336	1910	62-87	310-335	62-112	335-285	130-180	100	183	367	
BPM-F-800/17/4-P	800	1760	400	720	1650	536	1610	62-87	310-335	62-112	335-285	130-180	100	203	408	
BPM-F-800/20/4-P	800	2060	400	720	1950	536	1910	62-87	310-335	62-112	335-285	130-180	100	217	435	
BPM-F-1000/17/4-P	1000	1760	400	920	1650	736	1610	62-87	310-335	62-112	335-285	130-180	100	237	476	
BPM-F-1000/20/4-P	1000	2060	400	920	1950	736	1910	62-87	310-335	62-112	335-285	130-180	100	257	515	
BPM-F-1200/17/4-P	1200	1760	400	1120	1650	936	1610	62-87	310-335	62-112	335-285	130-180	100	276	554	
BPM-F-1200/20/4-P	1200	2060	400	1120	1950	936	1910	62-87	310-335	62-112	335-285	130-180	100	292	585	

Possible variants of inside configuration of BP(M)-F

- Installation of inside equipment is identical for both versions BP-F with IP30 and BPM-F with IP55
- 1. Installation of mounting plates BPZ-MPL and mounting sets (e.g. BPZ-NZM) directly onto rear frame. Frontplates can be equipped by means of supports PSN-FPS.
- 2. Simultaneous installation of mounting plates BPZ-MPL or mounting sets (e.g. BPZ-NZM) and device rails directly onto rear frame. Device rails can be fitted either with towers BPZ-TF/2 (set with rail BPZ-DINR13...-B) for standard depth or directly onto rear frame for maximum depth. The other depths between these two utmost ones can be reached with towers BPZ-TA/2 (set with rail BPZ-DINR13...-T). For this tower, the device rail is fitted by means of fastening elements BEL.
- 3. Example of mounting of frontplates by means of support PSN-FPS.
- 4. Application of mounting side walls PSN-MSW. Device rails are mounted onto PSN-MSW by means of fastening elements BEL. Mounting plates and device rails can be fitted directly onto rear frame, as well. Front plates are fastened onto side walls PSN-MSW for whole board height. Installation of the mounting frame PSN-MSW is the same as for surface mounting board, i.e. by means of corner towers BPZ-CTS-L. Corner towers BPZ-CTS-L are not in scope of delivery of the board itself.
- 5. Application of mounting side walls PSN-MSW for partial height of the board. Suitable e.g. for combination of input power section and installation section in a single board. Short side walls PSN-MSW are mounted by means of towers BPZ-CTS-L in the corners and towers BPZ-CTS-S in the middle of the board. The towers are not in a scope of delivery of the board. Frontplates are mounted onto PSN-MSW in the installation section. If the frontplates are asked also for power section, support PSN-FPS with appropriate length is used for their fixing.
- 6. Application of mounting side walls PSN-MSW for more sections. Suitable e.g. for easier mounting of heavy equipment, for splitting up into heavy current and weak current section etc. It is necessary to pay attention to correct position of the tower BPZ-CTS-S (the cutout has to be located at the opposite side to PSN-MSW).

**Mounting Inserts, BPZ-MES**

- Overview of all available inserts with front plates. Insert fits in Wall-mounting-, Flush-mounting- and Open distribution boards. With MSW application.

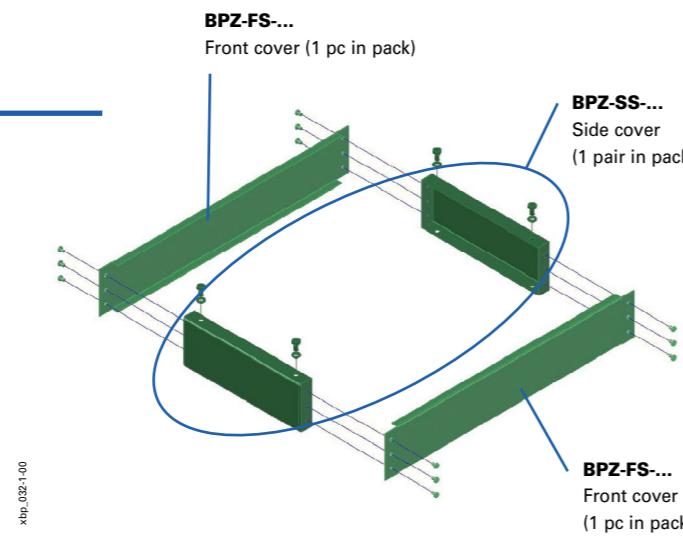
	BPZ-MES-600/4 			
	48 MU			
	BPZ-MES-400/7 	BPZ-MES-600/7 		
	52 MU	96 MU		
	BPZ-MES-400/10 	BPZ-MES-600/10 	BPZ-MES-800/10 	BPZ-MES-1000/10
	65 MU	120 MU	175 MU	230 MU
	BPZ-MES-400/12 	BPZ-MES-600/12 	BPZ-MES-800/12 	BPZ-MES-1000/12
	78 MU	144 MU	210 MU	276 MU
	BPZ-MES-600/15 	BPZ-MES-800/15 	BPZ-MES-1000/15 	BPZ-MES-1200/15
	168 MU	245 MU	322 MU	399 MU
	BPZ-MES-600/17 	BPZ-MES-800/17 	BPZ-MES-1000/17 	BPZ-MES-1200/17
	192 MU	280 MU	368 MU	456 MU
	BPZ-MES-600/20 	BPZ-MES-800/20 	BPZ-MES-1000/20 	BPZ-MES-1200/20
	216 MU	315 MU	414 MU	513 MU

Front cover for base, BPZ-FS-..

- Height: 100 mm or 200 mm
- Material: Sheet steel, powder-coated, RAL 7035 and RAL 9016
- Scope of delivery: 1 Front cover, fixing material

Side cover for base, BPZ-SS-..

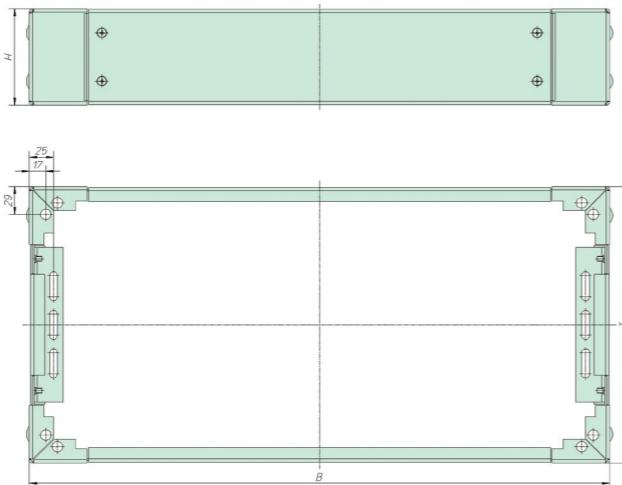
- Height: 100 mm or 200 mm
- Material: Sheet steel, powder-coated, RAL 7035 and RAL 9016
- Scope of delivery: 2 Side covers, fixing material

**Cable Interconnect Frame, BPZ-KR...**

- Height: 75, 100 or 200 mm
- Material: Sheet steel, powder-coated, RAL 7035 or RAL 9016 (BPZ-KR.../300-W)
 - Scope of delivery: 1 Cable interconnect frame including fixing material without cable strain-relief rail

Dimensions (mm)

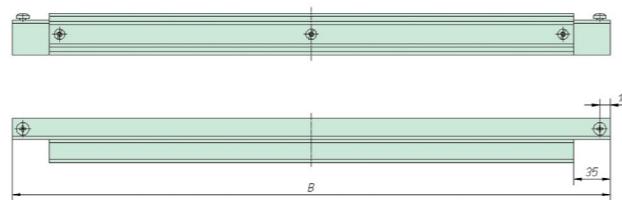
Type	W	H	D
BPZ-KR3.5x/...	350	75/100/200	250/400
BPZ-KR4x/...	400	100/200	300/320/400
BPZ-KR6x/...	600	75/100/200	250/300/320/400
BPZ-KR8x/...	800	100/200	300/320/400
BPZ-KR8.5x/...	850	75/100/200	250/400
BPZ-KR10x/...	1000	100/200	300/320/400
BPZ-KR11x/...	1100	75/100/200	250/400
BPZ-KR12x/...	1200	100/200	300/320/400
BPZ-KR13x/...	1350	75/100/200	250/400

**Cable Strain-Relief Rail, BPZ-KFS, BPZ-KFS**

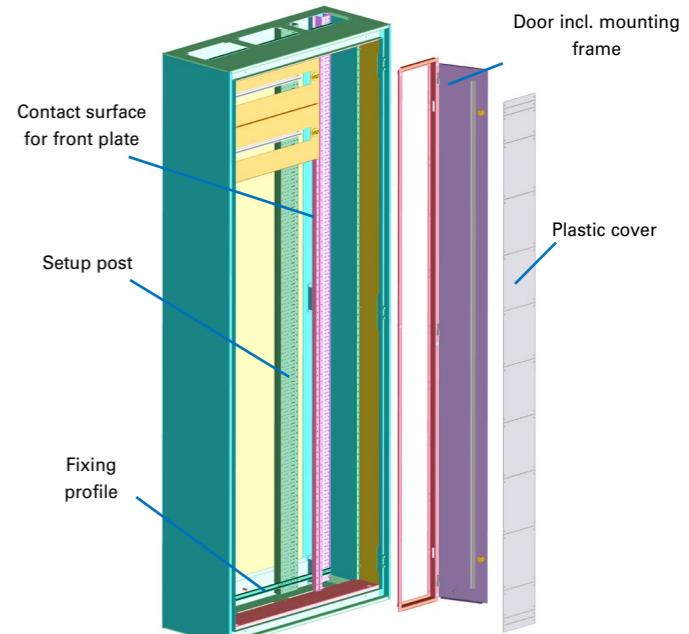
- Material: Sheet steel, galvanized
- C-Profile 16 mm, for hammerfoot yoke clamps
- Scope of delivery: 1 Cable strain-relief rail incl. fixing material

Dimensions (mm)

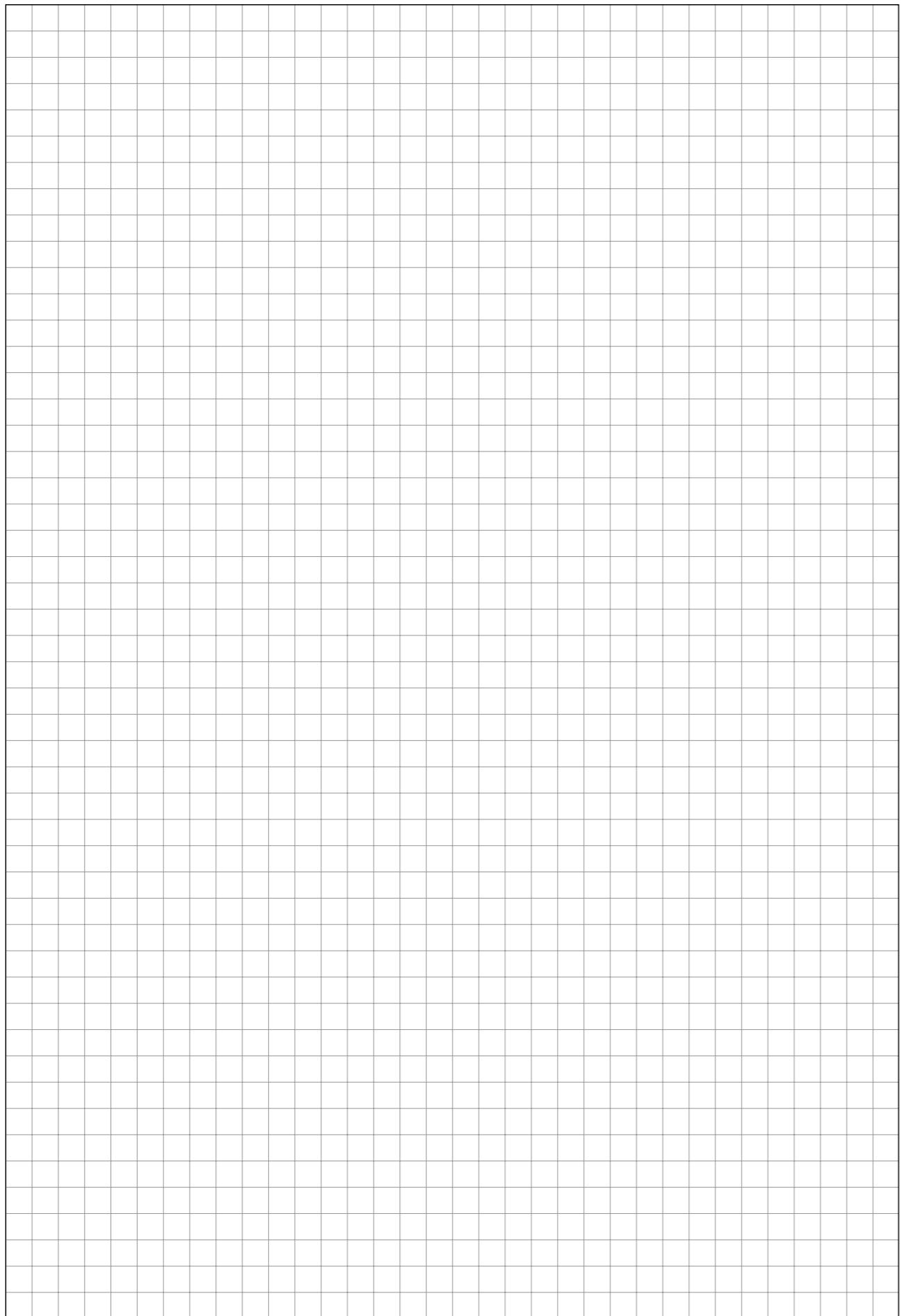
Type	B
BPZ-KFS400	370
BPZ-KFS600	570
BPZ-KFS800	770
BPZ-KFS1000	970
BPZ-KFS1200	1170

**Set for Internal Cable Area available as a Complete Kit, PSN-ICD-..**

- Suitable for wall-mounted (height 15) and floor-standing enclosures, each of them can be realised in a width of 800 and 1000 mm
- The cable area can either be mounted on the left or on the right side of the enclosure
- The door is right-hinged and pivoting, removable when necessary
- The metal door makes contact with the enclosure
- The plastic cover serves as an additional protection when the door to the cable area is open
- Material
 - Fixing profiles: Sheet steel (2 mm), galvanized
 - Setup post: Sheet steel (1.5 mm), galvanized
 - Contact surface for front plate: Sheet steel (1.5 mm), galvanized
 - Door/frame: Sheet steel (1.5 mm), powder-coated, RAL 7035
 - Plastic cover: 2 mm PVC, transparent
- Scope of delivery: 2 Fixing profiles (for top and bottom), 1 setup post, 1 contact surface for front plate, 1 door incl. mounting frame, 1 plastic cover, mounting accessories



Example of application (floor-standing enclosure IP55 in a width of 800 mm incl. cable area of 200 mm)

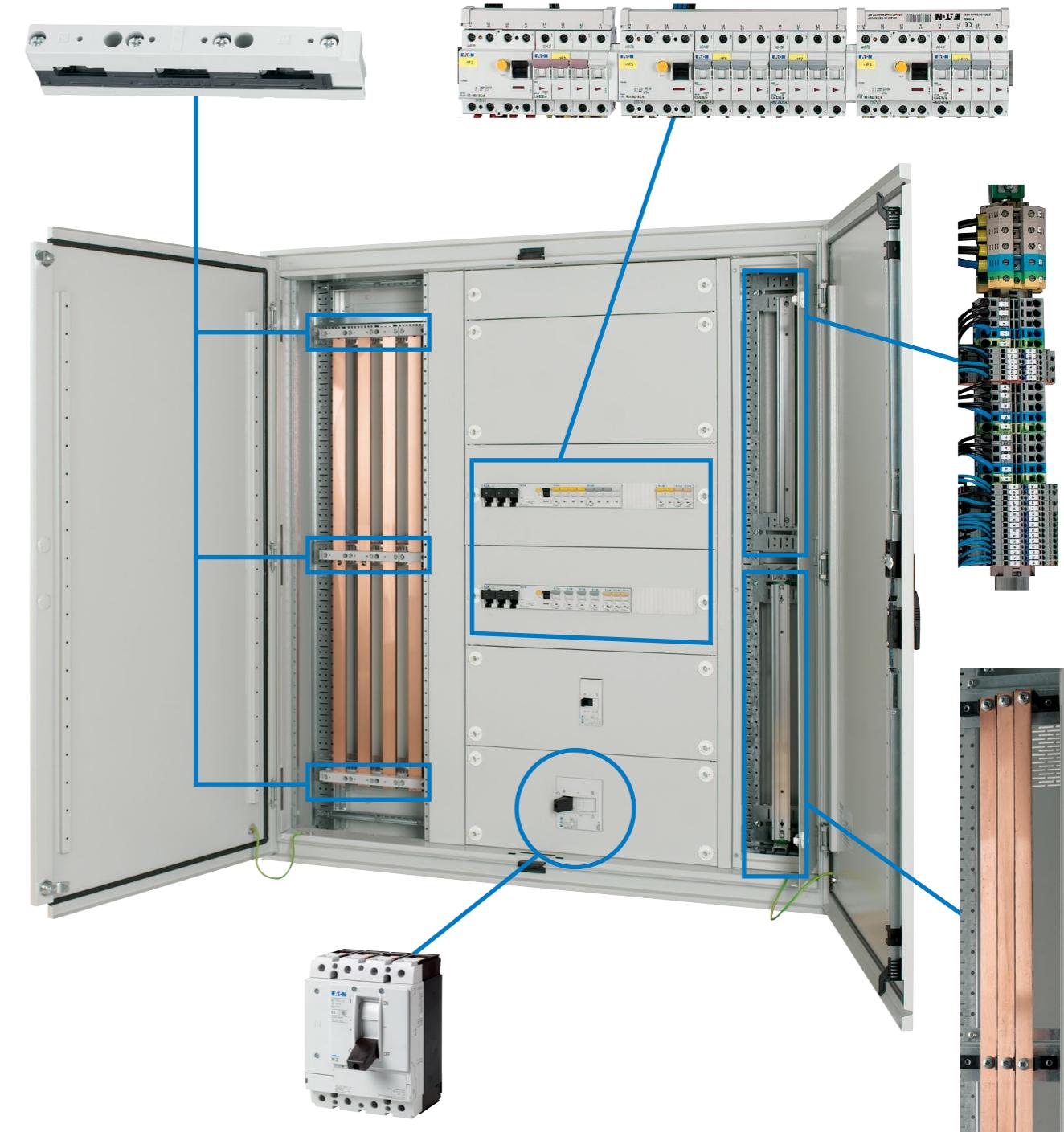
**System Overview****Shared compartment inside xEnergy Basic**

The construction of the xEnergy Basic enables a very flexible partition from 1 to max. 3 different sections inside one distribution board! Typically 200 mm compartments are used for separate cable connection room and the 400 mm wide section can be used e.g. for vertical busbar system up to 630 A. The arrangement and division of the interior is completely arbitrary and is mainly up to the installation behavior from the panel builder / installer.

Example for illustration:

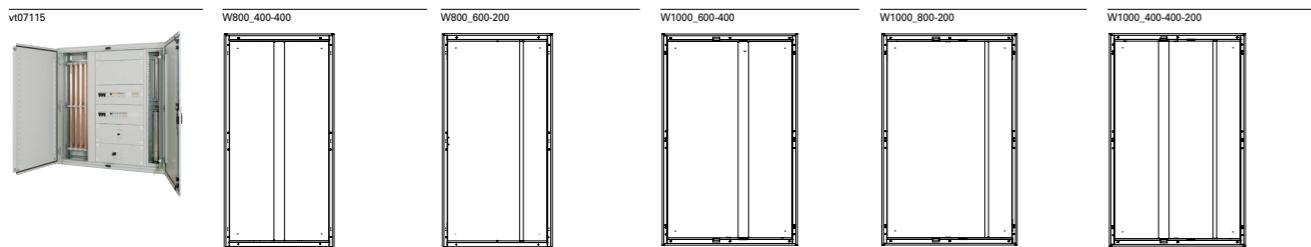
xEnergy Basic type BPM-O-1200/12-P divided into

- 400 mm busbar compartment (with SASY 60i busbar system)
- 600 mm section for installing circuit breakers (MCBs, MCCBs)
- 200 mm cable room for placing outgoing terminals / auxiliary wiring



xEnergy Distribution Boards

Shared compartments inside distribution boards BP(M)-O, BP(M)-F

xEnergy
Basic
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Height [mm]	Height int. [mm]	Compartment arrangement installation back frame consists of separation frame, front plate support and horizontal fixing profile (just needed for BP-O/BPM-O)				
		400/400 mm split-up	600/200 mm split-up*)	600/400 mm split-up*)	800/200 mm split-up*)	400/400/200 mm split-up*)
		RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey	RAL 7035 grey
		Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

Basic surface-mounted and floor-standing cabinets (IP30 / IP55)

460	350	-	BPZ-SFB-800 + PSN-FPS/350	-	-	-
			173633 + 112343			
			BPZ-SF-200/4			
			173628			
760	650	-	BPZ-SFB-800 + PSN-FPS/650	-	-	-
			173633 + 112344			
			BPZ-SF-200/7			
			173629			
1060	950	BPZ-SFB-800 + PSN-FPS/950	BPZ-SFB-800 + PSN-FPS/950	BPZ-SFB-1000 + PSN-FPS/950	BPZ-SFB-1000 + PSN-FPS/950	BPZ-SFB-1000 + PSN-FPS/950 (2x)
		173633 + 112345	173633 + 112345	173634 + 112345	173634 + 112345 (2x)	173634 + 112345 (2x)
		BPZ-SF-10	BPZ-SF-200/10	BPZ-SF-10	BPZ-SF-200/10	BPZ-SF-10 + BPZ-SF-200/10 **
		173625	173630	173625	173630	173625 + 173630
1260	1150	BPZ-SFB-800 + PSN-FPS/1150	BPZ-SFB-800 + PSN-FPS/1150	BPZ-SFB-1000 + PSN-FPS/1150	BPZ-SFB-1000 + PSN-FPS/1150	BPZ-SFB-1000 + PSN-FPS/1150 (2x)
		173633 + 112346	173633 + 112346	173634 + 112346	173634 + 112346 (2x)	173634 + 112346 (2x)
		BPZ-SF-12	BPZ-SF-200/12	BPZ-SF-12	BPZ-SF-200/12	BPZ-SF-12 + BPZ-SF-200/12 **
		173626	173631	173626	173631	173626 + 173631
1560	1450	BPZ-SFB-800 + PSN-FPS/1450	BPZ-SFB-800 + PSN-FPS/1450	BPZ-SFB-1000 + PSN-FPS/1450	BPZ-SFB-1000 + PSN-FPS/1450	BPZ-SFB-1000 + PSN-FPS/1450 (2x)
		173633 + 112347	173633 + 112347	173634 + 112347	173634 + 112347 (2x)	173634 + 112347 (2x)
		BPZ-SF-15	BPZ-SF-200/15	BPZ-SF-15	BPZ-SF-200/15	BPZ-SF-15 + BPZ-SF-200/15 **
		173627	173632	173627	173632	173627 + 173632
1760	1650	BPZ-SFB-800 + PSN-FPS/17	-	PSN-FPS/17	-	-
		173633 + 106431		106431		
		BPZ-SF-17		BPZ-SF-17		
		108374		108374		
2060	1950	BPZ-SFB-800 + PSN-FPS/20	-	PSN-FPS/20	-	-
		173633 + 106430		106430		
		BPZ-SF-20		BPZ-SF-20		
		108375		108375		

*) The line-up can be realized in reverse order as well.

**) This combination can also be realized with the adjacent articles in RAL 9016 (white).

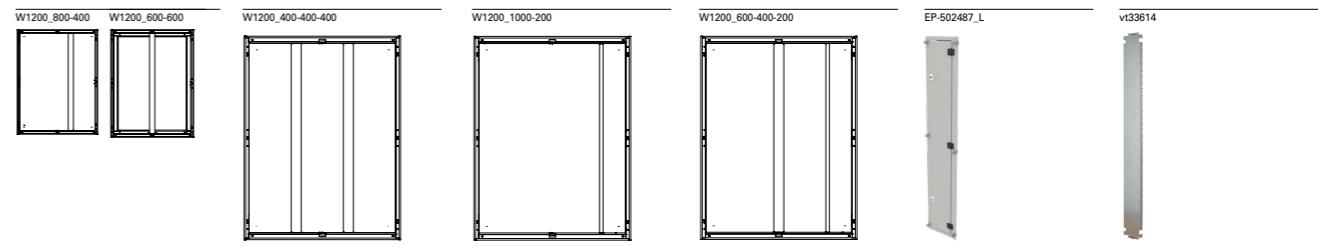
Width [mm]	Dividing plate horizontal / Installation back frame	Width [mm]	Dividing plate horizontal / Installation back frame
	Cat. No. per unit unit = 1 pc.		Cat. No. per unit unit = 1 pc.

Separation Main Frame, BPZ-ASMF

200	BPZ-ASMF-200	800	BPZ-ASMF-800
	188221		120724
400	BPZ-ASMF-400	1000	BPZ-ASMF-1000
	120722		120725
600	BPZ-ASMF-600	1200	BPZ-ASMF-1200
	120723		120726

xEnergy
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Shared compartments inside distribution boards BP(M)-O, BP(M)-F



Compartment arrangement installation back frame consists of separation frame, front plate support and horizontal fixing profile (just needed for BP-O/BPM-O)	Compartment door 200mm / Installation back frame	Dividing plate full height / Installation back frame / Vertical partition
800/400 mm or 600/600 mm split-up*)	400/400/400 mm split-up	1000/200 mm split-up*)
RAL 7035 grey	RAL 7035 grey	RAL 7035 grey

Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

BPZ-SF-DP-4	173636
BPZ-SF-DP-7	173637
PSN-CD-200/10-BL	BPZ-SF-DP-10
EP-502487	173638
BPZ-SFB-1200 + PSN-FPS/1150 (2x)	BPZ-SFB-1200 + PSN-FPS/1150 (2x)
173635 + 112346 (2x)	173635 + 112346 (2x)
BPZ-SF-12 (2x)	BPZ-SF-200/12
173626 (2x)	173631
BPZ-SFB-1200 + PSN-FPS/1450 (2x)	BPZ-SFB-1200 + PSN-FPS/1450 (2x)
173635 + 112347 (2x)	173635 + 112347 (2x)
BPZ-SF-15 (2x)	BPZ-SF-200/15
173627 (2x)	173632
PSN-FPS/17 (2x)	BPZ-SF-17 (2x)
106431 (2x)	108374 (2x)
PSN-FPS/20 (2x)	BPZ-SF-20 (2x)
106430 (2x)	108375 (2x)

*) The line-up can be realized in reverse order as well.

**) This combination can also be realized with the adjacent articles in RAL 9016 (white).

Vertical Division in a Surface-Mounted Installation DB as of 800 mm width, IP30 and IP55

- The interior layout can be divided into different sub-divisional widths by using vertical profiles
- Not suitable for a layout including a mounting side-panel (PSN-MSW)
- In addition, there is also a possibility to use partitions between these individual compartments
- Vertical division in a wall-mounted distribution board is possible as of a width of 800 mm, in a floor-standing distribution board of a width of 1000 or 1200 mm only

Fixing Profile for Divided Set-up in a Wall-mounted Distribution Board, BPZ-SFB

- This profile can directly be fixed at the frame and serves as an element for fixing the other setup posts at the rear
- When used in an IP30 enclosure, the bar must be shortened on both ends
- Material: Sheet steel (2 mm), galvanized
- Scope of delivery: 2 Fixing profiles (for top and bottom), fixing accessories

Set for Divided Setup, BPZ-SF

- For setting up the divided sections required in the enclosure
- Set consisting of setup posts (rear-mounted) and cover frame (front-mounted)
- An overview of all layout types possible is provided on the next page
- Material
 - Setup posts: Sheet steel (1.5 mm), galvanized
 - Front cover: Sheet steel (1 mm), powder-coated, RAL 7035
- Scope of delivery: Depending on the type with either 1 or 2 setup posts, 1 cover frame, fixing accessories

Sheet-Steel Door as a Front Cover for the 200 mm Compartment in a Divided Setup, PSN-CD-200/..

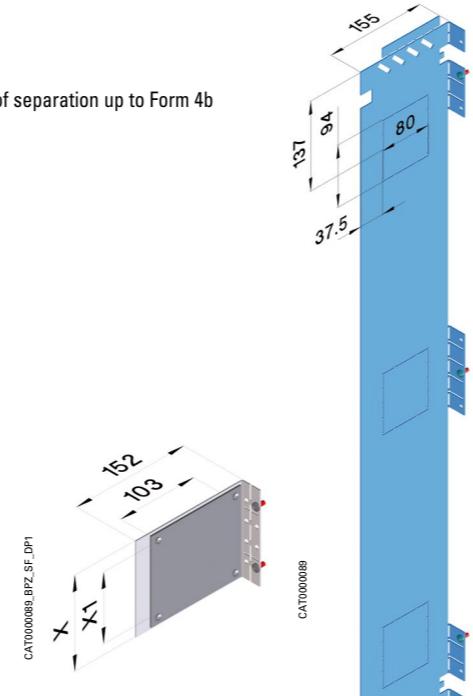
- To protect the 200 mm compartment from unauthorized access
- The door is right-hinged, pivoting and removable when necessary
- Metal door to make contact with the enclosure
- Material: Sheet steel (1.5 mm), powder-coated, RAL 7035
- Scope of delivery: 1 Door incl. mounting frame, fixing accessories

Partition for Divided Setup, BPZ-SF-DP-..

- For vertical partition between 2 sub-sections within one enclosure
- Section-high partition plates for continuous shared compartments, incl. rectangular perforations
- Various partitions from 100 mm up to 800 mm for sealing off prepared compartments / mounting kits, incl. plastic inserts for better accessibility of cable entries etc.
- In combination with horizontal separation main frame BPZ-ASMF it's possible to achieve internal form of separation up to Form 4b
- Mounted on main frame in the back
- Material: Sheet steel (1.5 mm), galvanized
- Scope of delivery: 1 partition plate, mounting accessories

Dimensions (mm)

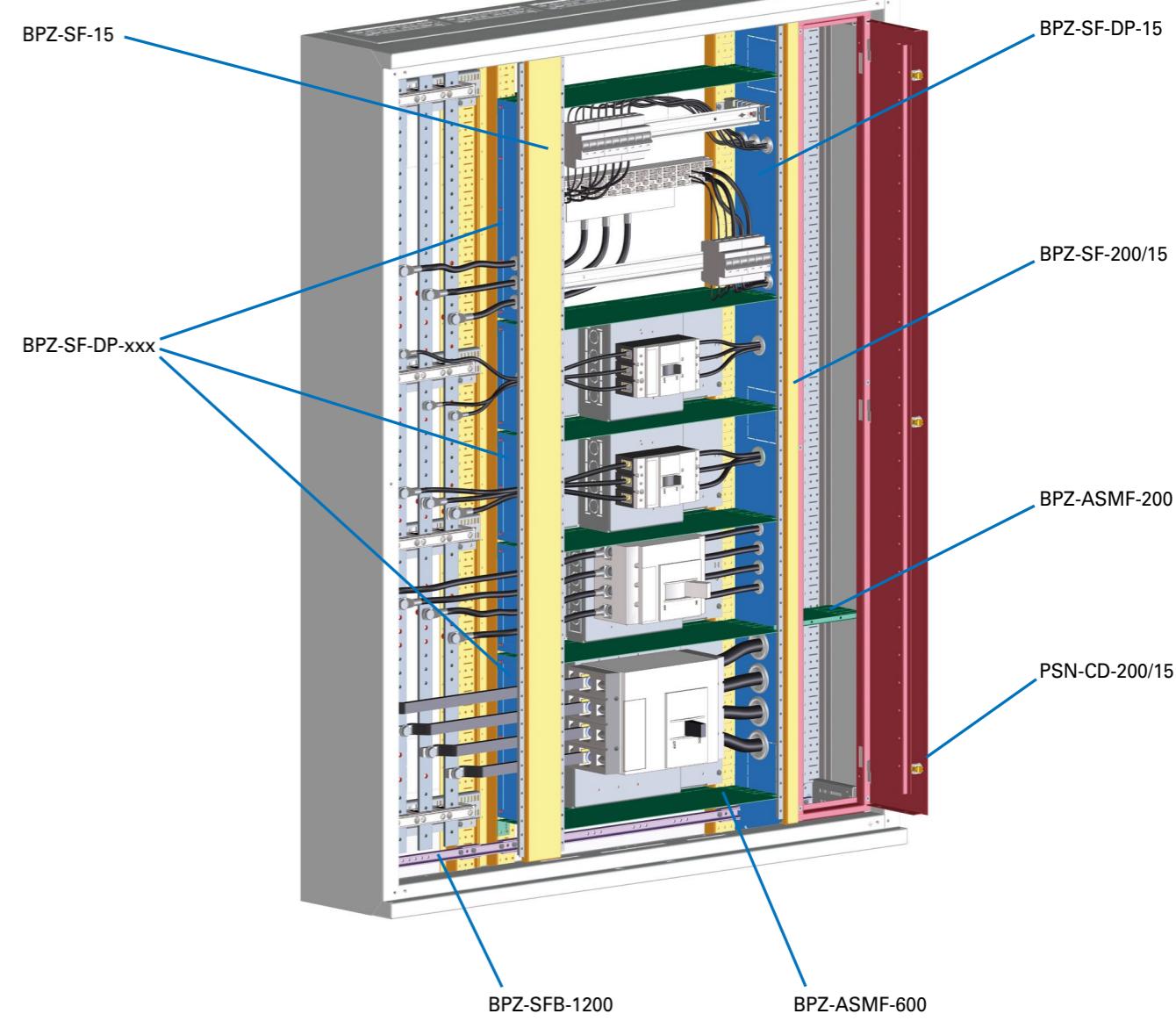
Type	X	X1	Cutout
BPZ-SF-DP-100	93	63	63x103
BPZ-SF-DP-125	118	88	88x103
BPZ-SF-DP-150	143	113	113x103
BPZ-SF-DP-175	168	138	138x103
BPZ-SF-DP-200	193	163	163x103
BPZ-SF-DP-250	243	213	213x103
BPZ-SF-DP-300	293	263	263x103
BPZ-SF-DP-350	343	313	313x103
BPZ-SF-DP-400	393	363	363x103
BPZ-SF-DP-500	493	463	463x103
BPZ-SF-DP-600	593	563	563x103
BPZ-SF-DP-800	793	763	763x103

**Separation Main Frame, BPZ-ASMF**

- Mounted on main frame
- For creating a horizontal section within the board
- Mounted horizontal with knock-outs
- Material: Sheet steel (1.25 mm), zinc-coated
- Scope of delivery: 1 Partition, hitch screw

Possible Variants for Vertical Division in a Surface-Mounted Installation Distribution Board IP30 and IP55

Type / Enclosure width [mm]	Compartment Width [mm]					Parts required depending on division of the enclosure
	1000	800	600	400	200	
Wall-mounted enclosure 800 mm	-	-	-	2x	-	BPZ-SFB-800
Wall-mounted enclosure 800 mm	-	-	1x	-	1x	BPZ-SFB-800
Wall-mounted enclosure 1000 mm	-	-	-	2x	1x	BPZ-SFB-1000
Wall-mounted enclosure 1000 mm	-	-	1x	1x	-	BPZ-SFB-1000
Wall-mounted enclosure 1000 mm	-	1x	-	-	1x	BPZ-SFB-1000
Wall-mounted enclosure 1200 mm	-	-	-	3x	-	BPZ-SFB-1200
Wall-mounted enclosure 1200 mm	-	-	1x	1x	1x	BPZ-SFB-1200
Wall-mounted enclosure 1200 mm	-	-	2x	-	-	BPZ-SFB-1200
Wall-mounted enclosure 1200 mm	-	1x	-	1x	-	BPZ-SFB-1200
Wall-mounted enclosure 1200 mm	1x	-	-	-	1x	BPZ-SFB-1200
Floor-standing enclosure 1000 mm	-	-	1x	1x	-	-
Floor-standing enclosure 1200 mm	-	-	-	3x	-	-
Floor-standing enclosure 1200 mm	-	-	2x	-	-	-
Floor-standing enclosure 1200 mm	-	1x	-	1x	-	-



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**Distribution Boards****Distribution Boards**

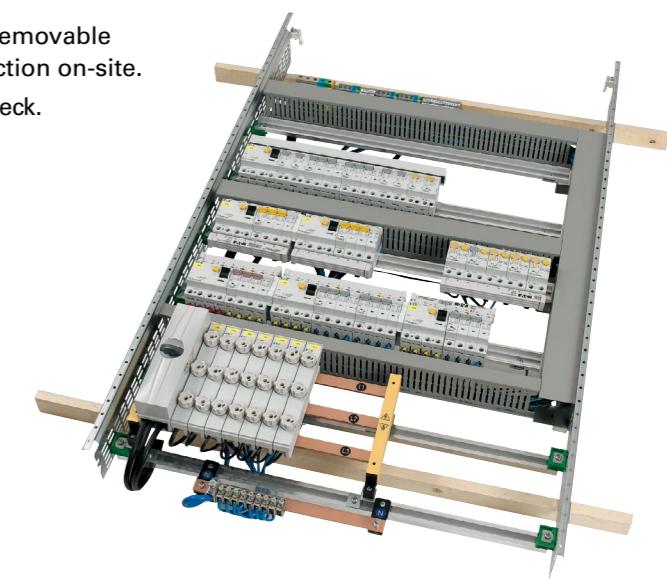
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• Chapter 2	Enclosures / switchgear cabinets for installation system EP in protection class I and II.....	Page 10
	2.1 Surface-mounted and floor-standing distribution board EMC2-H.../55-W, IP55	Page 11
	2.2 Surface-mounted distribution board BP-O-....EP-W, IP31	Page 20
	2.3 Surface-mounted distribution board BPM-O-....EP, IP55	Page 25
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System Overview**Different ways of assembling the interior fitting****Option 1: using "MSW" for simple wiring in the workshop**

Efficient pre-installation in the workshop thanks to our removable mounting insert (PSN-MSW) guarantees smooth connection on-site.
All connection points are fully accessible and easy to check.

Benefits:

- Fast and reliable
- Time-saving solution
- Easy access from 360° view
- No housing around the insert

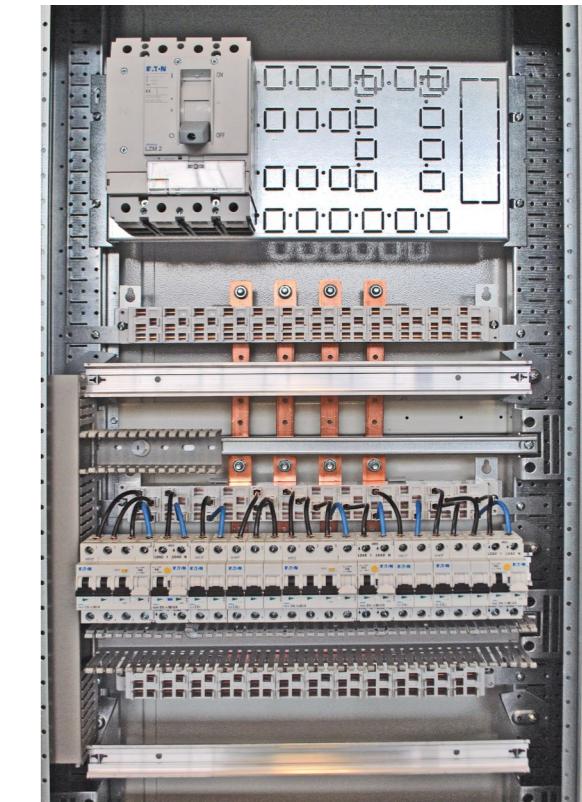
**Option 2: using fixed installation material for direct mounting inside the enclosure**

Well-considered cabling and connection work directly in the enclosure thanks to different components for a clear and structured "multilayer" assembling.

All interior parts are directly linked to the installation profiles on the back side of the enclosure.

Benefits:

- Robust design
- Multilayer assembling possible
- Internal connection to separate cable room / busbar compartment
- Mounting kits for multiple MCCB installation available



xEnergy Distribution Boards

Front plates, blind and with 45mm cut-out for DIN-rail devices, PSN-FP(P)-...

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xEnergy Distribution Boards

Front plates, blind and with 45mm cut-out for DIN-rail devices, PSN-FP(P)-...



Width [mm]	Height [mm]	ProfiSNAP Front Plate (blind) Powder-coated steel-sheet Self-earthing and sealable fasteners enable continuous conductivity of the protective earthing concept Tool-less and time-effective installation thanks to patented locking concept	ProfiSNAP Front Plate (blind) Powder-coated steel-sheet frame with plastic insert (PVC) Self-earthing and sealable fasteners enable continuous conductivity of the protective earthing concept Tool-less and time-effective installation thanks to patented locking concept	ProfiSNAP Front Plate (45 mm cut-out) Powder-coated steel-sheet Self-earthing and sealable fasteners enable continuous conductivity of the protective earthing concept Tool-less and time-effective installation thanks to patented locking concept	ProfiSNAP Front Plate (45 mm cut-out) with split design (vertical) Powder-coated steel-sheet Self-earthing and sealable fasteners enable continuous conductivity of the protective earthing concept Tool-less and time-effective installation thanks to patented locking concept
		Material thickness 1.25 mm RAL 7035 grey	Material thickness 1.25 mm / 2 mm (PVC) RAL 7035 grey	Material thickness 1.25 mm RAL 7035 grey	Material thickness 1.25 mm RAL 7035 grey
400 (13MU/row)	50	PSN-FP-400/050-BL EP-502156	-	-	-
	100	PSN-FP-400/100-BL EP-502157	-	-	-
	125	PSN-FP-400/125-BL-MSW * EP-502158	-	PSN-FP-400/125-45-MSW * EP-502216	-
	150	PSN-FP-400/150-BL EP-502159	-	PSN-FP-400/150-45 EP-502217	-
	175	PSN-FP-400/175-BL-MSW * EP-502160	-	PSN-FP-400/175-45-MSW * EP-502218	-
	200	PSN-FP-400/200-BL EP-502161	PSN-FPP-400/200-BL EP-502241	PSN-FP-400/200-45 EP-502219	-
	250	PSN-FP-400/250-BL EP-502162	-	-	-
	300	PSN-FP-400/300-BL EP-502163	PSN-FPP-400/300-BL EP-502242	-	-
	350	PSN-FP-400/350-BL EP-502164	-	-	-
	400	PSN-FP-400/400-BL EP-502165	-	-	-
	500	PSN-FP-400/500-BL EP-502166	-	-	-
	800	PSN-FP-400/800-BL EP-502167	-	-	-
600 (24MU/row)	50	PSN-FP-600/050-BL EP-502168	-	-	-
	100	PSN-FP-600/100-BL EP-502169	-	-	-
	125	PSN-FP-600/125-BL-MSW * EP-502170	-	PSN-FP-600/125-45-MSW * EP-502220	-
	150	PSN-FP-600/150-BL EP-502171	-	PSN-FP-600/150-45 EP-502221	-
	175	PSN-FP-600/175-BL-MSW * EP-502172	-	PSN-FP-600/175-45-MSW * EP-502222	-
	200	PSN-FP-600/200-BL EP-502173	PSN-FPP-600/200-BL EP-502243	PSN-FP-600/200-45 EP-502223	-
	250	PSN-FP-600/250-BL EP-502174	-	-	-
	300	PSN-FP-600/300-BL EP-502175	PSN-FPP-600/300-BL EP-502244	-	-
	350	PSN-FP-600/350-BL EP-502176	-	-	-
	400	PSN-FP-600/400-BL EP-502177	-	-	-
	500	PSN-FP-600/500-BL EP-502178	PSN-FPP-600/500-BL EP-502245	-	-
	800	PSN-FP-600/800-BL EP-502179	-	-	-

*) intended for use with MSW installation

xEnergy Distribution Boards

Front plates, blind and with 45mm cut-out for DIN-rail devices, PSN-FP(P)-...

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Width [mm]	Height [mm]	PSN-FP-800/050-BL EP-502180	PSN-FP-800/100-BL EP-502181	PSN-FP-800/125-BL-MSW * EP-502182	PSN-FP-800/150-BL EP-502183	PSN-FP-800/175-BL-MSW * EP-502184	PSN-FP-800/200-BL EP-502185	PSN-FP-800/250-BL EP-502186	PSN-FP-800/300-BL EP-502187	PSN-FP-800/350-BL EP-502188	PSN-FP-800/400-BL EP-502189	PSN-FP-800/500-BL EP-502190	PSN-FP-800/800-BL EP-502191	PSN-FP-1000/050-BL EP-502192	PSN-FP-1000/100-BL EP-502193	PSN-FP-1000/125-BL-MSW * EP-502194	PSN-FP-1000/150-BL EP-502195	PSN-FP-1000/175-BL-MSW * EP-502196	PSN-FP-1000/200-BL EP-502197	PSN-FP-1000/250-BL EP-502198	PSN-FP-1000/300-BL EP-502199	PSN-FP-1000/350-BL EP-502200	PSN-FP-1000/400-BL EP-502201	PSN-FP-1000/500-BL EP-502202	PSN-FP-1000/800-BL EP-502203	VT00405, VT02605 EP-502223_L	EP-502247_L	EP-502476_L	EP-502477_L
800 (35MU/row)	50																												
	100	PSN-FP-800/100-BL EP-502181																											
	125	PSN-FP-800/125-BL-MSW * EP-502182														PSN-FP-800/125-45-MSW * EP-502224													
	150	PSN-FP-800/150-BL EP-502183														PSN-FP-800/150-45 EP-502225			PSN-FP-800/150-45/S31MU EP-502476		PSN-FP-800/150-45/A22-9MU EP-502477								
	175	PSN-FP-800/175-BL-MSW * EP-502184														PSN-FP-800/175-45-MSW * EP-502226													
	200	PSN-FP-800/200-BL EP-502185		PSN-FPP-800/200-BL EP-502246												PSN-FP-800/200-45 EP-502227													
	250	PSN-FP-800/250-BL EP-502186																											
	300	PSN-FP-800/300-BL EP-502187		PSN-FPP-800/300-BL EP-502247																									
	350	PSN-FP-800/350-BL EP-502188																											
	400	PSN-FP-800/400-BL EP-502189																											
	500	PSN-FP-800/500-BL EP-502190		PSN-FPP-800/500-BL EP-502248																									
	800	PSN-FP-800/800-BL EP-502191																											
1000 (46MU/row)	50	PSN-FP-1000/050-BL EP-502192																											
	100	PSN-FP-1000/100-BL EP-502193																											
	125	PSN-FP-1000/125-BL-MSW * EP-502194														PSN-FP-1000/125-45-MSW * EP-502228													
	150	PSN-FP-1000/150-BL EP-502195														PSN-FP-1000/150-45 EP-502229			PSN-FP-1000/150-45/S42MU EP-502478		PSN-FP-1000/150-45/A29-13MU EP-502479								
	175	PSN-FP-1000/175-BL-MSW * EP-502196														PSN-FP-1000/175-45-MSW * EP-502230													
	200	PSN-FP-1000/200-BL EP-502197		PSN-FPP-1000/200-BL EP-502249												PSN-FP-1000/200-45 EP-502231													
	250	PSN-FP-1000/250-BL EP-502198																											
	300	PSN-FP-1000/300-BL EP-502199		PSN-FPP-1000/300-BL EP-502250																									
	350	PSN-FP-1000/350-BL EP-502200																											
	400	PSN-FP-1000/400-BL EP-502201																											
	500	PSN-FP-1000/500-BL EP-502202		PSN-FPP-1000/500-BL EP-502251																									
	800	PSN-FP-1000/800-BL EP-502203																											

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Front plates, blind and with 45mm cut-out for DIN-rail devices, PSN-FP(P)-...

xEnergy Distribution Boards

Front plates, blind and with 45mm cut-out for DIN-rail devices, PSN-FP(P)-...

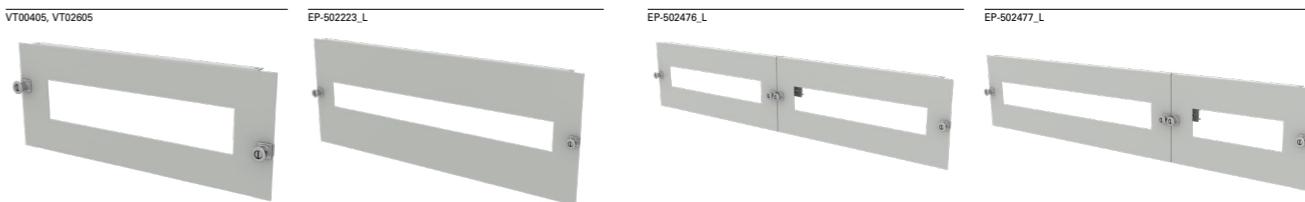


Width [mm]	Height [mm]	ProfiSNAP Front Plate (blind)	ProfiSNAP Front Plate (blind)	ProfiSNAP Front Plate (45mm cut-out)	ProfiSNAP Front Plate (45mm cut-out) with split design (vertical)
		Powder-coated steel-sheet	Powder-coated steel-sheet frame with plastic insert (PVC)	Powder-coated steel-sheet	Powder-coated steel-sheet
		Self-earthing and sealable fasteners enable continuous conductivity of the protective earthing concept	Self-earthing and sealable fasteners enable continuous conductivity of the protective earthing concept	Self-earthing and sealable fasteners enable continuous conductivity of the protective earthing concept	Self-earthing and sealable fasteners enable continuous conductivity of the protective earthing concept
		Tool-less and time-effective installation thanks to patented locking concept	Tool-less and time-effective installation thanks to patented locking concept	Tool-less and time-effective installation thanks to patented locking concept	Tool-less and time-effective installation thanks to patented locking concept
					Symmetrical divided
		Material thickness 1.25 mm RAL 7035 grey	Material thickness 1.25 mm / 2 mm (PVC) RAL 7035 grey	Material thickness 1.25 mm RAL 7035 grey	Material thickness 1.25 mm RAL 7035 grey
1200 (57MU/row)	50	PSN-FP-1200/050-BL EP-502204	-	-	-
	100	PSN-FP-1200/100-BL EP-502205	-	-	-
	125	PSN-FP-1200/125-BL-MSW * EP-502206	-	PSN-FP-1200/125-45-MSW * EP-502232	-
	150	PSN-FP-1200/150-BL EP-502207	-	PSN-FP-1200/150-45 EP-502233	-
	175	PSN-FP-1200/175-BL-MSW * EP-502208	-	PSN-FP-1200/175-45-MSW * EP-502234	-
	200	PSN-FP-1200/200-BL EP-502209	PSN-FPP-1200/200-BL EP-502252	PSN-FP-1200/200-45 EP-502235	-
	250	PSN-FP-1200/250-BL EP-502210	-	-	-
	300	PSN-FP-1200/300-BL EP-502211	PSN-FPP-1200/300-BL EP-502253	-	-
	350	PSN-FP-1200/350-BL EP-502212	-	-	-
	400	PSN-FP-1200/400-BL EP-502213	-	-	-
	500	PSN-FP-1200/500-BL EP-502214	PSN-FPP-1200/500-BL EP-502254	-	-
	800	PSN-FP-1200/800-BL EP-502215	-	-	-

*) intended for use with MSW installation

xEnergy Basic
Sheet 5/6**xEnergy Basic**
Sheet 6/6**xEnergy Distribution Boards**

Front plates, blind and with 45mm cut-out for DIN-rail devices, PSN-FP(P)-...

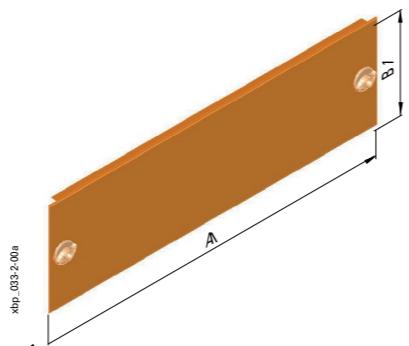


Front plates blind, PSN-FP-..-45

- To cover spare areas or to protect areas in use
- Material: sheet steel, powder-coated, RAL 7035 or RAL 9016
- Metal front plates with automatic connection to the enclosure
- Scope of delivery: 1 front plate

Dimensions (mm)

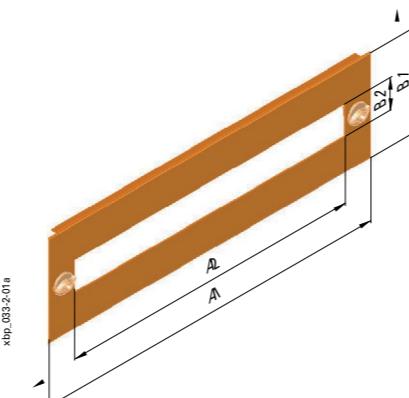
Type	Outside dimensions	
	Width A1	Height B1
PSN-FP-400/..-BL	320	50, 100, 150, 200, 250, 300
PSN-FP-600/..-BL	520	50, 100, 150, 200, 250, 300
PSN-FP-800/..-BL	720	50, 100, 150, 200, 250, 300
PSN-FP-1000/..-BL	920	50, 100, 150, 200, 250, 300
PSN-FP-1200/..-BL	1120	50, 100, 150, 200, 250, 300

**Front plates with 45 mm device cutout, PSN-FP-..-45**

- To cover areas accommodating switchgear
- Material: sheet steel, powder-coated, RAL 7035 or RAL 9016
- Metal front plates with automatic connection to the enclosure
- Scope of delivery: 1 front plate

Dimensions (mm)

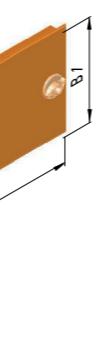
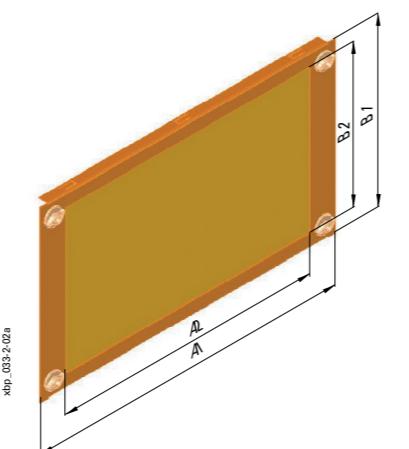
Type	Outside dimensions		Inside dimensions		
	Width A1	Height B1	Width A2	Height B2	TE
PSN-FP-400/..-45	320	150, 200	238	46	13
PSN-FP-600/..-45	520	150, 200	438	46	24
PSN-FP-800/..-45	720	150, 200	638	46	35
PSN-FP-1000/..-45	920	150, 200	838	46	46
PSN-FP-1200/..-45	1120	150, 200	1038	46	57

**Front plates sheet steel with plastic insert, PSN-FPP-...-BL**

- Material: sheet steel, powder-coated, RAL 7035 or RAL 9016
- Metal front plates with automatic connection to the enclosure
- Material of plastic insert: 2 mm PVC, similar to RAL 7035
- Scope of delivery: 1 front plate

Dimensions (mm)

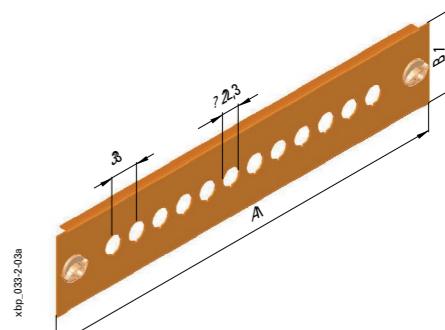
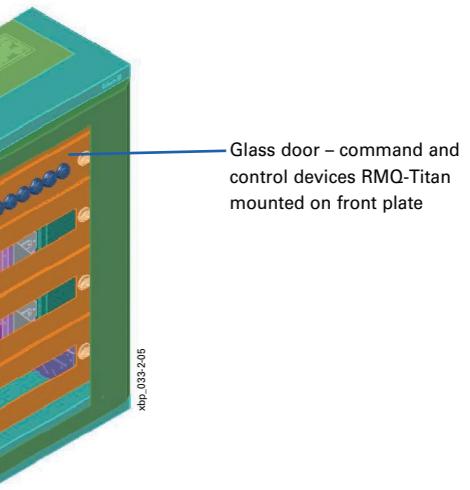
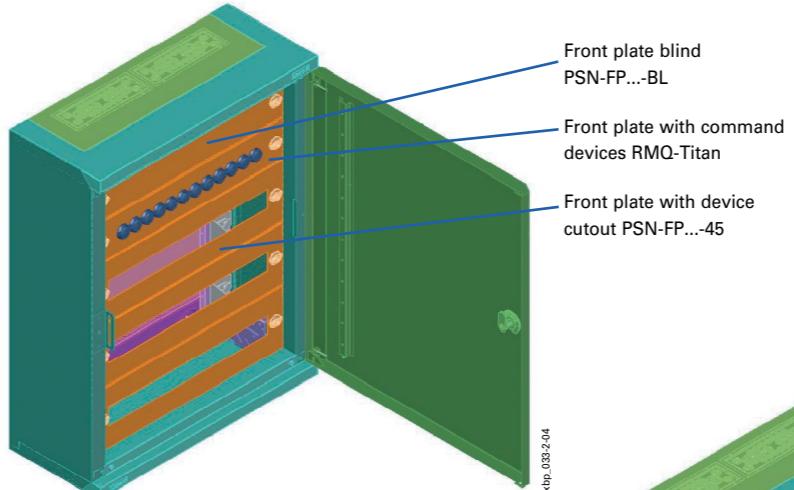
Type	Outside dimensions		Inside dimensions	
	Width A1	Height B1	Width A2	Height B2
PSN-FPP-400/200-BL	320	200	230	154
BPZ-FPP-400/300-BL	320	300	230	254
BPZ-FPP-600/200-BL	520	200	430	154
BPZ-FPP-600/300-BL	520	300	430	254
BPZ-FPP-600/500-BL	520	500	430	454
PSN-FPP-800/200-BL	720	200	630	154
BPZ-FPP-800/300-BL	720	300	630	254
BPZ-FPP-800/500-BL	720	500	630	454
PSN-FPP-1000/200-BL	920	200	830	154
BPZ-FPP-1000/300-BL	920	300	830	254
BPZ-FPP-1000/500-BL	920	500	830	454
PSN-FPP-1200/200-BL	1120	200	1030	154
BPZ-FPP-1200/300-BL	1120	300	1030	254
BPZ-FPP-1200/500-BL	1120	500	1030	454

**Front plates for command devices RMQ-Titan, BPZ-FP-...-RMQ**

- Material: sheet steel, powder-coated, RAL 7035 or RAL 9016
- Metal front plates with automatic connection to the enclosure
- Scope of delivery: 1 front plate

Dimensions (mm)

Type	Outside dimensions		Amount of supports for RMQ
	Width A1	Height B1	
BPZ-FP-400/100-RMQ	320	100	7
BPZ-FP-600/100-RMQ	520	100	12

**Examples of application of front plates**

xEnergy Distribution Boards

Mounting kits for Molded Case Circuit Breaker

xEnergy Basic
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Width [mm]	Installation back frame NZM1 single	Mounting side wall (MSW) NZM1 single
	Toggle operation	Rotary door handle / direct swing handle
	Rear connection RAL 7035 grey	Side connection RAL 7035 grey
	Side connection RAL 7035 grey	Side connection RAL 7035 grey

Mounting kits for Molded Case Circuit Breaker, frame size 1, NZM1/LZM1 (horizontal configuration)

400	BPZ-MPL-NZM1X-600-MX 174390 PSN-FP/S-NZM1-600/200-MH EP-502357	PSN-NZM1-400/200-MH EP-502298	-	-
600	BPZ-MPL-NZM1X-800-MX 174399 PSN-FP/S-NZM1-800/200-MH EP-502358	PSN-NZM1-600/200-MH EP-502299	PSN-NZM1-600/200-MH-XDV EP-502301	PSN-NZM1-600/200-MH-MSW EP-502300
800	BPZ-MPL-NZM1X-1000-MX 173619 PSN-FP/S-NZM1X-1000/200-MV EP-502359	PSN-NZM1-800/200-MH EP-502302	PSN-NZM1-800/200-MH-XDV EP-502304	PSN-NZM1-800/200-MH-MSW EP-502303
1000	-	-	-	-
1200	-	-	-	-

xEnergy Basic
Sheet 2/2


Width [mm]	Installation back frame NZM1 single (+XFI module) or NZM1 multiple	Mounting side wall (MSW) NZM1 single	Installation back frame NZM1 multiple
	Toggle operation	Rotary door handle / direct swing handle	Toggle operation
	Rear connection RAL 7035 grey	Top/bottom connection RAL 7035 grey	Top/bottom connection RAL 7035 grey
	Side connection RAL 7035 grey	Side connection RAL 7035 grey	Side connection RAL 7035 grey

Mounting kits for Molded Case Circuit Breaker, frame size 1, NZM1/LZM1 (horizontal configuration)

400	BPZ-MPL-NZM1X-400-MV 120742 PSN-FP-NZM1X-2/2-400/200-MV EP-502326 (up to 2x NZM1-3p / 2x NZM1-4p)	PSN-NZM1-400/200-MV EP-502289	PSN-NZM1-400/200-MV-XDV EP-502291	PSN-NZM1-400/200-MV-MSW EP-502290	BPZ-MPL-NZM1X-400-MV 120742 PSN-FP-NZM1X-2/2-400/200-MV EP-502326 (up to 2x NZM1-3p / 2x NZM1-4p)
600	BPZ-MPL-NZM1X-600-MX 174390 PSN-FP/S-NZM1X-3/3-600/200-MV EP-502327 (up to 3x NZM1-4p)	PSN-NZM1-600/200-MV EP-502292	PSN-NZM1-600/200-MV-XDV EP-502294	PSN-NZM1-600/200-MV-MSW EP-502293	BPZ-MPL-NZM1X-600-MV 120743 PSN-FP/S-NZM1X-3/3-600/200-MV EP-502327 (up to 3x NZM1-3p / 3x NZM1-4p)
800	BPZ-MPL-NZM1X-800-MX 174399 PSN-FP/S-NZM1X-4/4-800/200-MV EP-502328 (up to 4x NZM1-4p)	PSN-NZM1-800/200-MV EP-502295	PSN-NZM1-800/200-MV-XDV EP-502297	PSN-NZM1-800/200-MV-MSW EP-502296	BPZ-MPL-NZM1X-800-MV 120744 PSN-FP/S-NZM1X-4/4-800/200-MV EP-502328 (up to 4x NZM1-3p / 4x NZM1-4p)
1000	-	-	-	-	BPZ-MPL-NZM1X-1000-MV 173619 PSN-FP/S-NZM1X-5/5-1000/200-MV EP-502329 (up to 5x NZM1-3p / 5x NZM1-4p)
1200	-	-	-	-	BPZ-MPL-NZM1X-1200-MV 173620 PSN-FP/S-NZM1X-6/6-1200/200-MV EP-502330 (up to 6x NZM1-3p / 6x NZM1-4p)

xEnergy Distribution Boards

Mounting kits for Molded Case Circuit Breaker

xEnergy Distribution Boards

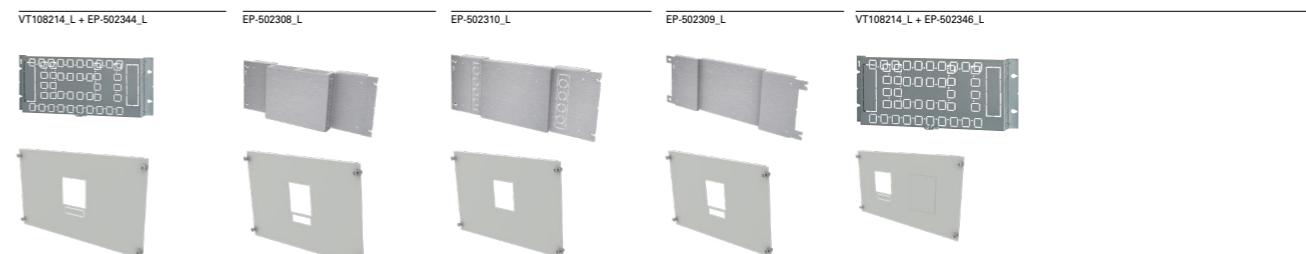
Mounting kits for Molded Case Circuit Breaker

xEnergy
Basic
Sheet 1/2

Width [mm]	Installation back frame	Mounting side wall (MSW)
	NZM2 + XFI module	NZM2 single
		NZM2 single
	Toggle operation	Rotary door handle / direct rotary handle
	Rear connection RAL 7035 grey	Side connection RAL 7035 grey

Mounting kits for Molded Case Circuit Breaker, frame size 2, NZM2/LZM2 (horizontal configuration)

400	-	PSN-NZM2-400/200-MH EP-502314	-	-
600	BPZ-MPL-NZM2X-600-MX 174391 PSN-FP/S- NZM2-600/200-MH-XFI EP-502360	BPZ-MPL-NZM2X-600-MX 174391 PSN-FP/S- NZM2-600/200-MH EP-502359	PSN-NZM2-600/200-MH EP-502315	PSN-NZM2-600/200-MH-XDV EP-502317
800	BPZ-MPL-NZM2X-800-MX 174400 PSN-FP/S- NZM2-800/200-MH-XFI EP-502362	BPZ-MPL-NZM2X-800-MX 174400 PSN-FP/S- NZM2-800/200-MH EP-502361	PSN-NZM2-800/200-MH EP-502318	PSN-NZM2-800/200-MH-XDV EP-502320
1000	-	-	-	-
1200	-	-	-	-

xEnergy
Basic
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Installation back frame	Mounting side wall (MSW)	Mounting side wall (MSW)
NZM2 single [NZM2 single + XFI module]	NZM2 single	NZM2 single
Toggle operation	Rotary door handle / direct swing handle	Toggle operation
Rear connection RAL 7035 grey	Top/bottom connection RAL 7035 grey	Top/bottom connection RAL 7035 grey
		Rear connection RAL 7035 grey

Mounting kits for Molded Case Circuit Breaker, frame size 1, NZM1/LZM1 (horizontal configuration)

PSN-FP-S- NZM2-400/400-MV-XFI EP-502343	PSN-NZM2-400/300-MV EP-502305	PSN-NZM2-400/300-MV-XDV EP-502307	PSN-NZM2-400/300-MV-MSW EP-502306	BPZ-MPL-NZM2X-400-MV 120745 PSN-FP- NZM2X-2/0-400/300-MV EP-502331 (up to 2x NZM2-3p)
BPZ-MPL-NZM2X-600-MX 174391 PSN-FP/S- NZM2-600/300-MV EP-502344 [PSN-FP/S- NZM2-600/400-MV-XFI] [EP-502345]	PSN-NZM2-600/300-MV EP-502308	PSN-NZM2-600/300-MV-XDV EP-502310	PSN-NZM2-600/300-MV-MSW EP-502309	BPZ-MPL-NZM2X-600-MX 174391 PSN-FP/S- NZM2X-3/2-600/300-MV EP-502332 (up to 3x NZM2-3p / 2x NZM2-4p) (up to 2x NZM2-3p / 2x NZM2-4p)
BPZ-MPL-NZM2X-800-MX 174400 PSN-FP/S- NZM2-800/300-MV EP-502347 [PSN-FP/S- NZM2-800/400-MV-XFI] [EP-502348]	PSN-NZM2-800/300-MV EP-502311	PSN-NZM2-800/300-MV-XDV EP-502313	PSN-NZM2-800/300-MV-MSW EP-502312	BPZ-MPL-NZM2X-800-MX 174400 PSN-FP/S- NZM2X-4/4-800/300-MV EP-502333 (up to 4x NZM2-3p / 4x NZM2-4p) (up to 3x NZM2-3p / 3x NZM2-4p)
-	-	-	BPZ-MPL-NZM2X-1000-MV 173621 PSN-FP- NZM2X-4/4-1000/300-MV EP-502334 (up to 4x NZM2-3p / 4x NZM2-4p)	-
-	-	-	BPZ-MPL-NZM2X-1200-MV 173622 PSN-FP- NZM2X-4/4-1200/300-MV EP-502335 (up to 4x NZM2-3p / 4x NZM2-4p)	-

xEnergy Distribution Boards

Mounting kits for Molded Case Circuit Breaker

xEnergy Basic
Sheet **1/2**

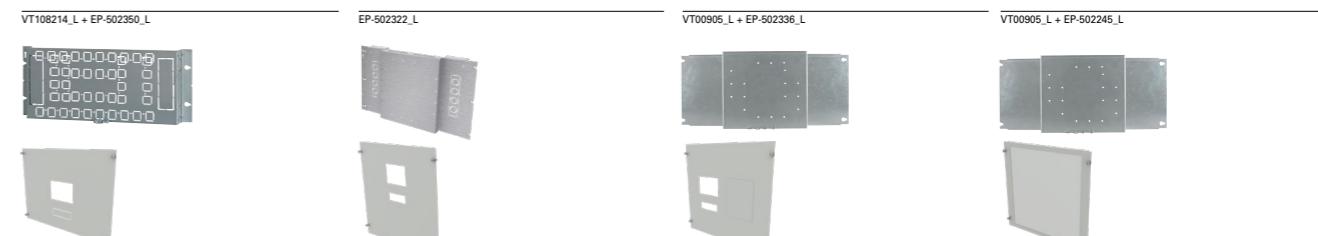


Width [mm]	Installation back frame NZM3 single	
	Toggle operation	
	Rear connection RAL 7035 grey	Side connection

Mounting kits for Molded Case Circuit Breaker, frame size 3, NZM3/LZM3 (horizontal configuration)

400			
600	BPZ-MPL-NZM3-600-MX 174395 PSN-FP/S-NZM3-600/400-MH EP-502363	PSN-NZM3-600/300-MH EP-502324	
800	BPZ-MPL-NZM3-800-MX 174404 PSN-FP/S-NZM3-800/400-MH EP-502364	PSN-NZM3-800/300-MH EP-502325	
1000	-	-	
1200	-	-	

xEnergy Basic
Sheet **2/2**



Width [mm]	Installation back frame NZM3 single	Installation back frame NZM3 multiple	combination of different frame sizes NZM3 + NZM2/NZM1 (no cut-outs prepared)
	Toggle operation	Toggle operation	
	Rear connection RAL 7035 grey	Top/bottom connection RAL 7035 grey	Top/bottom connection RAL 7035 grey

Mounting kits for Molded Case Circuit Breaker, frame size 3, NZM3/LZM3 (horizontal configuration)

400	PSN-NZM3-400/500-MV EP-502321		
600	BPZ-MPL-NZM3-600-MX 174395 PSN-FP/S-NZM3-600/400-MV EP-502350	PSN-NZM3-600/500-MV EP-502322	BPZ-MPL-NZM3X-600-MV 120748 PSN-FP-NZM3X-2/2-600/500-MV EP-502336 (up to 2x NZM3-3p / 2x NZM3-4p)
800	BPZ-MPL-NZM3-800-MX 174404 PSN-FP/S-NZM3-800/400-MV EP-502351	PSN-NZM3-800/500-MV EP-502323	BPZ-MPL-NZM3X-800-MV 120749 PSN-FP-NZM3X-3/3-800/500-MV EP-502337 (up to 3x NZM3-3p / 3x NZM3-4p)
1000	-	-	BPZ-MPL-NZM3X-1000-MV 173623 PSN-FP-NZM3X-3/3-1000/500-MV EP-502338 (up to 3x NZM3-3p / 3x NZM3-4p)
1200	-	-	BPZ-MPL-NZM3X-1200-MV 173624 PSN-FP-NZM3X-3/3-1200/500-MV EP-502339 (up to 3x NZM3-3p / 3x NZM3-4p)

Mounting sets PSN-NZM for circuit breakers NZM

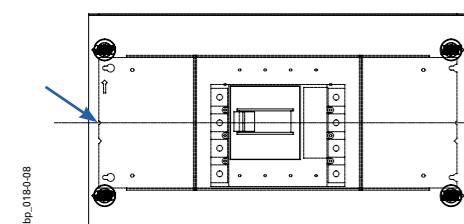
- Mounting sets PSN-NZM... for mounting NZM1-3 circuit breakers (position of the breaker vertical or horizontal) for surface-mounted or floor-standing boards
- Material
Front plate: sheet steel, powder-coated, RAL 7035 or RAL 9016
Mounting plate: sheet steel (2 mm), zinc-coated
- Metal front plates with automatic connection to the enclosure
- Design ...-XDV for breakers equipped with rotary door handle, suitable only for surface-mounted or floor-standing boards
- Scope of delivery: 1 mounting plate, 1 front plate, fixing material

Dimensions (mm)

Type	Front plate		Mounting plate		Outside dimensions	Outside dimensions	
	Width	Height	Width	Height			
	A3	B2	A1	B1	A2	A4	C
PSN-NZM1-400/200-MV	320	299	292	179	174	61	89.5
PSN-NZM2-400/300-MV	320	399	292	179	230	33	54.5
PSN-NZM3-400/500-MV	320	499	292	279	244	26	37
PSN-NZM1-600/200-MV	520	299	492	179	174	161	89.5
PSN-NZM2-600/300-MV	520	399	492	179	230	133	54.5
PSN-NZM3-600/500-MV	520	499	492	279	244	126	37
PSN-NZM1-800/200-MV	720	299	692	179	174	261	89.5
PSN-NZM2-800/300-MV-XDV	720	399	692	179	230	233	54.5
PSN-NZM3-800/500-MV	720	499	692	279	244	226	37
PSN-NZM1-400/200-MH	320	199	292	179	74	61	89.5
PSN-NZM2-400/200-MH	320	199	292	179	230	33	54.5
PSN-NZM1-600/200-MH	520	199	492	179	174	161	89.5
PSN-NZM2-600/200-MH	520	199	492	179	230	133	54.5
PSN-NZM1-800/200-MH	720	199	692	179	174	261	89.5
PSN-NZM2-800/200-MH	720	199	692	179	230	233	54.5
PSN-NZM2-400/300-MV-MSW	320	299	288	185	174	57	16.5
PSN-NZM2-400/300-MV-MSW	320	399	288	185	226	31	-18.5
PSN-NZM1-600/200-MV-MSW	520	299	488	185	174	157	16.5
PSN-NZM2-600/300-MV-MSW	520	399	488	185	226	131	-18.5
PSN-NZM1-800/200-MV-MSW	720	299	688	185	174	257	16.5
PSN-NZM2-800/300-MV-MSW	720	399	688	185	226	231	-18.5
PSN-NZM1-600/200-MH-MSW	520	199	488	185	174	157	16.5
PSN-NZM2-600/200-MH-MSW	520	199	488	185	226	131	-18.5
PSN-NZM1-800/200-MH-MSW	720	199	688	185	174	257	16.5
PSN-NZM2-800/200-MH-MSW	720	199	688	185	226	231	-18.5
PSN-NZM1-400/200-MV-XDV	320	299	292	179	174	61	54.5
PSN-NZM2-400/300-MV-XDV	320	399	292	179	230	33	19.5
BPZ-NZM3-400-MV-RH	320	499	292	279	244	26	0
PSN-NZM1-600/200-MV-XDV	520	299	492	179	174	161	54.5
PSN-NZM2-600/300-MV-XDV	520	399	492	179	230	133	19.5
PSN-NZM1-800/200-MV-XDV	720	299	692	179	174	261	54.5
PSN-NZM2-800/300-MV-XDV	720	399	692	179	230	233	19.5
PSN-NZM1-600/200-MH-XDV	520	199	492	179	174	161	54.5
PSN-NZM2-600/200-MH-XDV	520	199	492	179	230	133	19.5
PSN-NZM1-800/200-MH-XDV	720	199	692	179	174	261	54.5
PSN-NZM2-800/200-MH-XDV	720	199	692	179	230	233	19.5

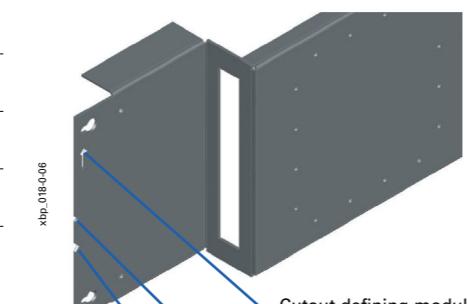
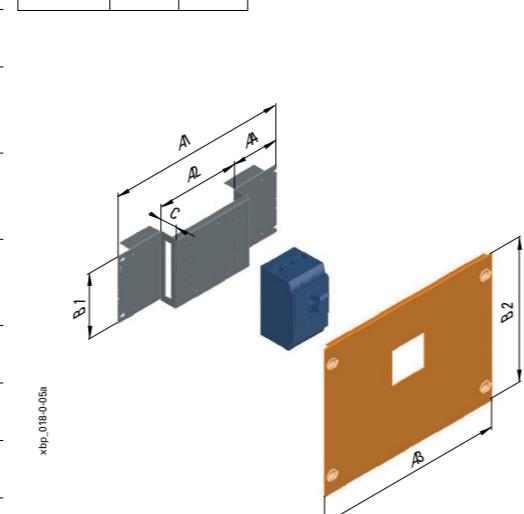
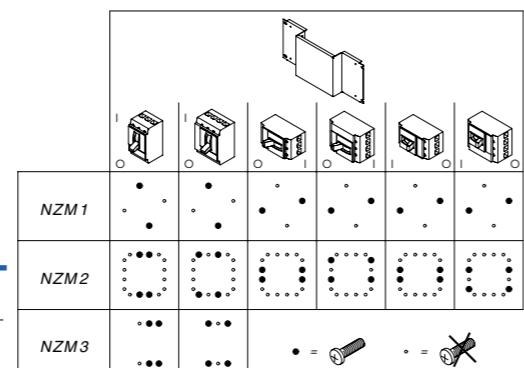
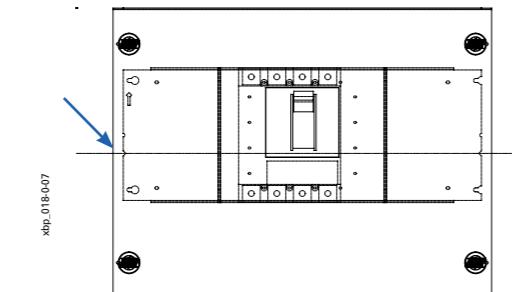
Round cutout:

- identifies axis of the device module
- identifies front plate axis for horizontal mounting



Sharp cutout:

- identifies front plate axis for vertical mounting (position of the mounting plate is defined by the axis of the front plate)



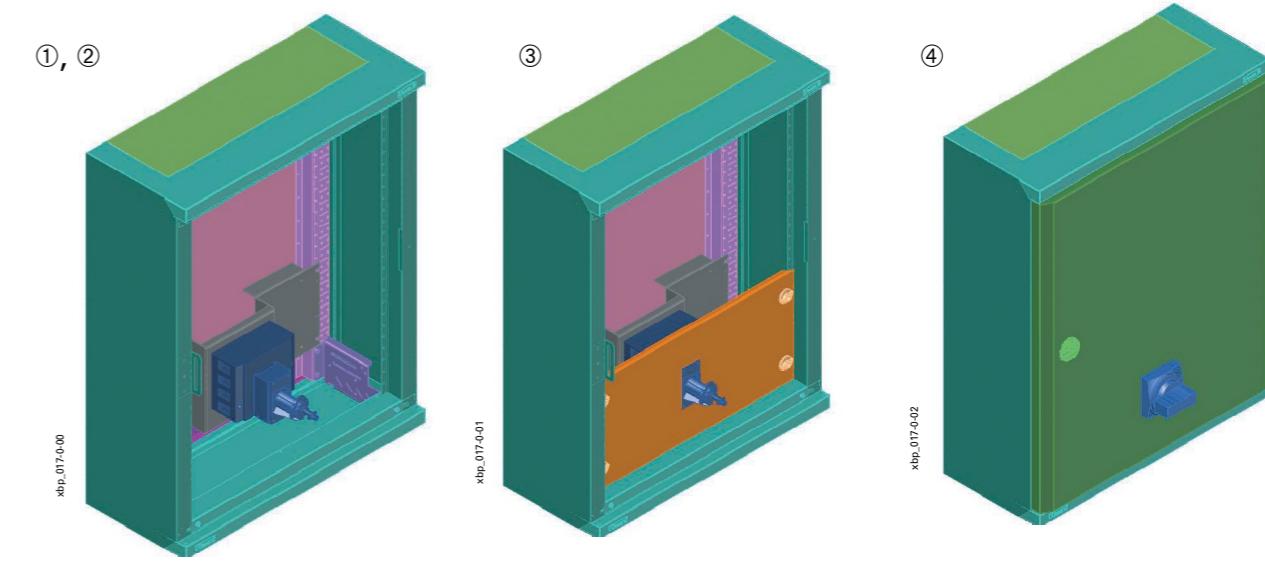
Cutout defining module orientation – the arrow has to be oriented top.
 Cutout identifying module axis for horizontal mounting.
 Cutout identifying front plate axis for vertical mounting.

Applications of mounting sets PSN-NZM...-XDV

- Example of utilisation in a surface-mounted board (can be used for floor-standing boards as well)

Mounting process

1. Fixing of a breaker onto mounting plate from the set
2. Installation of the mounting plate with the breaker into board
3. Fixing of the front plate
4. Mounting of the door coupling and swing handle

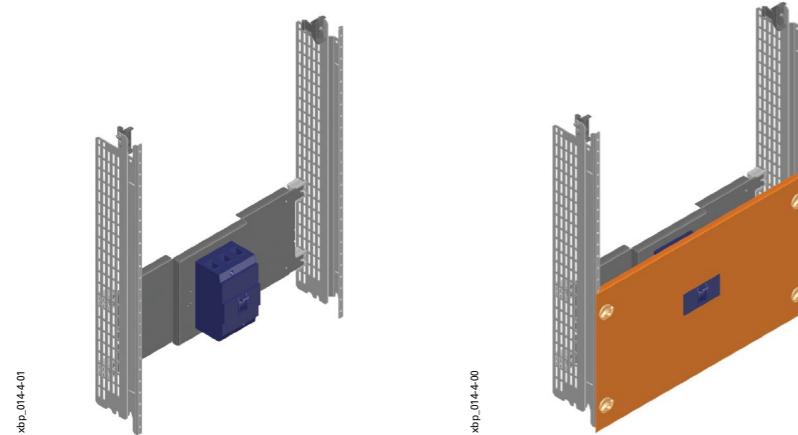
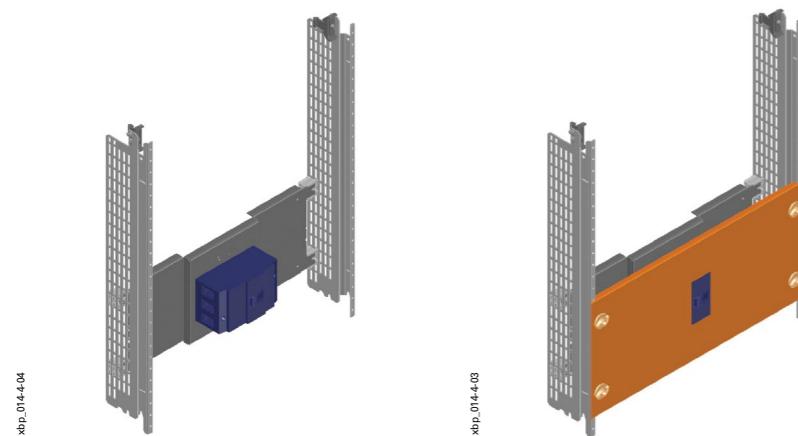
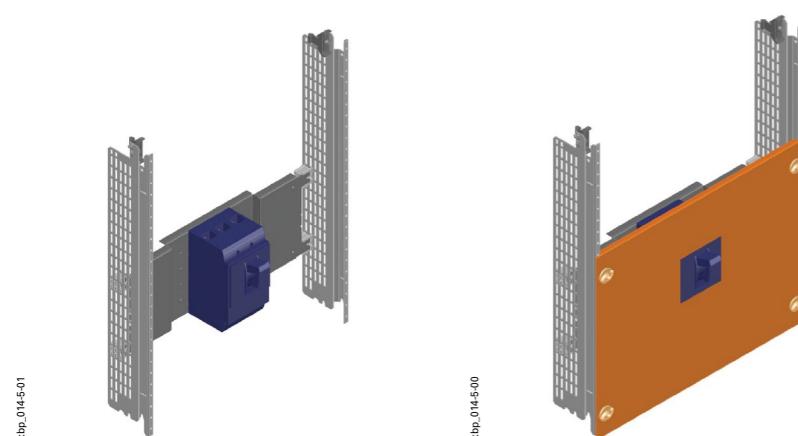
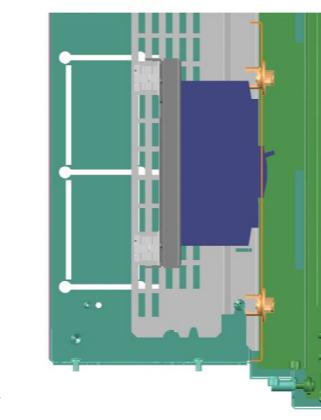
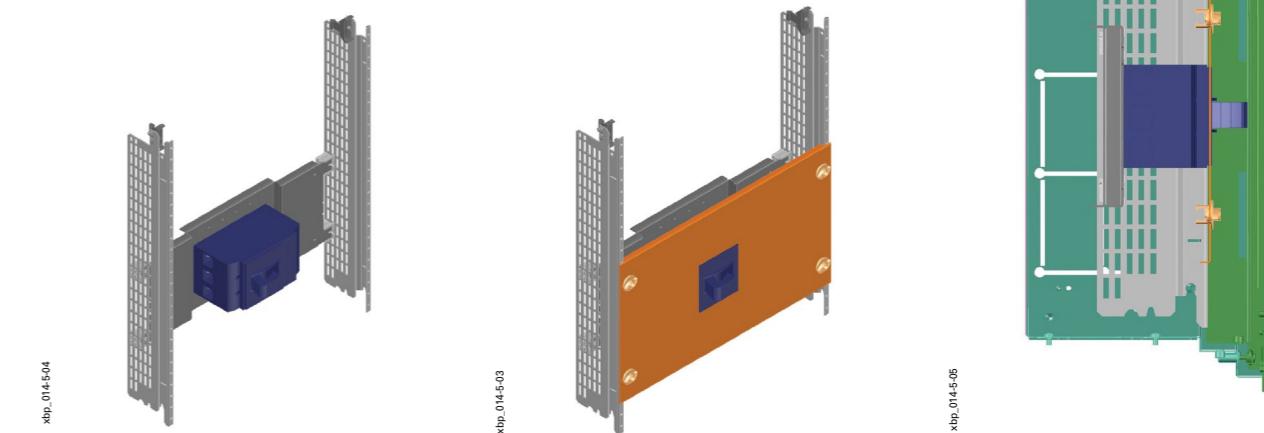


Applications of mounting sets PSN-NZM...-MSW

- For NZM breakers of type size 1 and 2
- Vertical or horizontal orientation of the breaker
- Mounting on to side walls PSN-MSW by means of fastening elements BEL

Mounting process:

1. Fixing of a breaker onto mounting plate from the set
2. Installation of the mounting plate with the breaker into board by means of fastening elements BEL
3. Fixing of the front plate

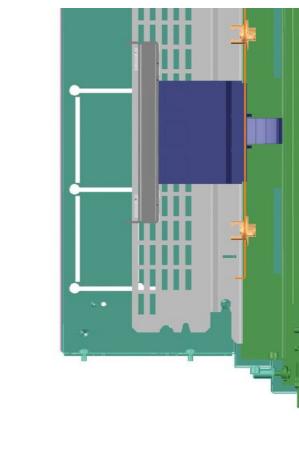
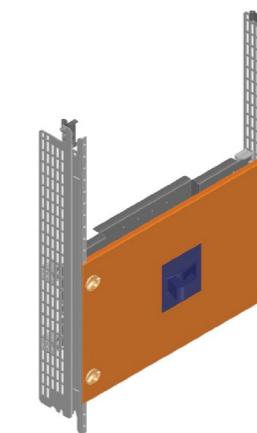
NZM1 breaker, horizontal orientation**NZM2 breaker, vertical orientation****NZM2 breaker, vertical orientation****Applications of mounting sets PSN-NZM...-MSW****NZM1 breaker, horizontal orientation**

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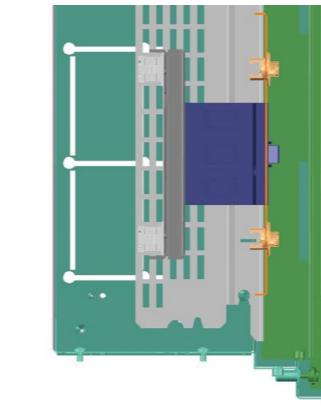
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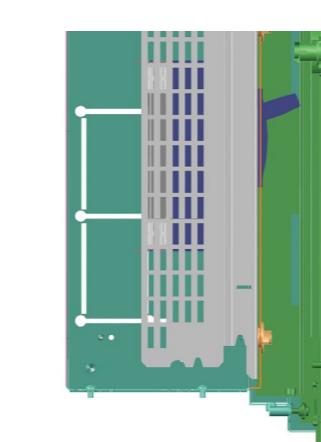
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xbp_014-5-02a

Mounting Plate for Several Devices such as NZM, BPZ-MPL-NZM...-MV

- For mounting one or several NZM devices in a vertical position
- Suitable for wall-mounted and floor-standing enclosures with ProfiSNAP mounting frame
- Material: Sheet steel (2 mm), galvanized
- Scope of delivery: 1 Mounting plate, mounting accessories

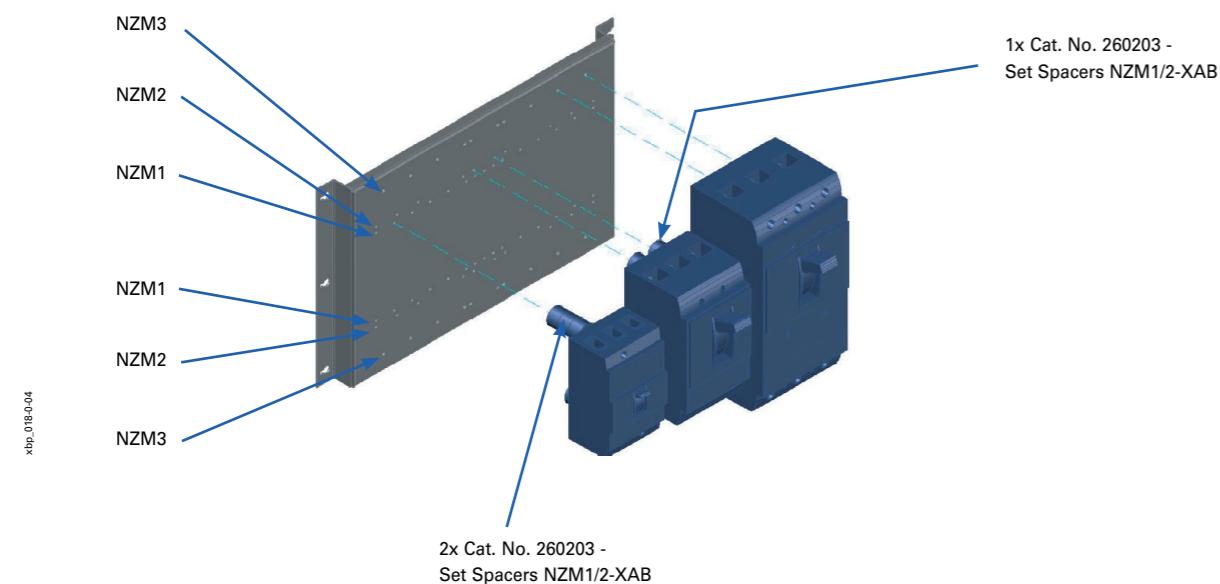
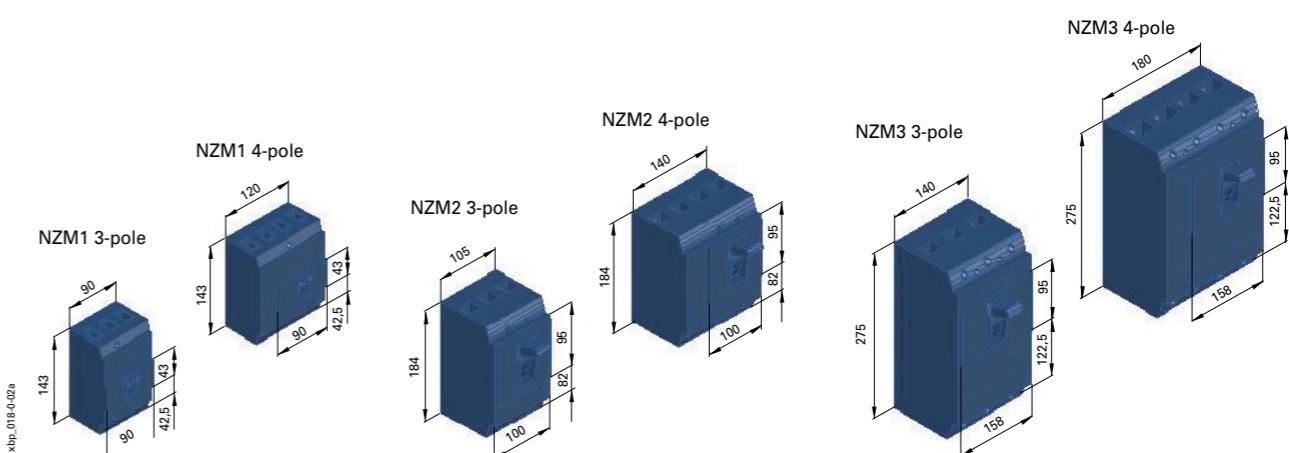
Dimensions (mm)

Type	Max. number of 3-/4-pole NZMs *)	A1	A2	B1
BPZ-MPL-NZM1X-400-MV	2x NZM1 / 2x NZM1	292	232	160
BPZ-MPL-NZM1X-600-MV	4x NZM1 / 3x NZM1	492	432	160
BPZ-MPL-NZM1X-800-MV	7x NZM1 / 5x NZM1	692	632	160
BPZ-MPL-NZM1X-1000-MV	9x NZM1 / 6x NZM1	892	832	160
BPZ-MPL-NZM1X-1200-MV	11x NZM1 / 8x NZM1	1092	1032	160
BPZ-MPL-NZM2X-400-MV	2x NZM2 / -	292	232	185
BPZ-MPL-NZM2X-600-MV	3x NZM2 / 2x NZM2	492	432	185
BPZ-MPL-NZM2X-800-MV	4x NZM2 / 4x NZM2	692	632	185
BPZ-MPL-NZM2X-1000-MV	4x NZM2 / 4x NZM2	892	832	185
BPZ-MPL-NZM2X-1200-MV	4x NZM2 / 4x NZM2	1092	1032	185
BPZ-MPL-NZM3X-600-MV	2x NZM3 / 2x NZM3	492	432	285
BPZ-MPL-NZM3X-800-MV	3x NZM3 / 3x NZM3	692	632	285
BPZ-MPL-NZM3X-1000-MV	3x NZM3 / 3x NZM3	892	832	285
BPZ-MPL-NZM3X-1200-MV	3x NZM3 / 3x NZM3	1092	1032	285

*) Max. number depending on availability of suitable front plates

Placing of the mounting holes for particular type sizes of the circuit breakers (BPZ-MPL-NZM3X...)

- In case that circuit breakers of different type sizes are mounted onto a single mounting plate it is necessary to put spacers NZM1/2-XAB under the smaller size breaker. The matching front plate with plastic insert BPZ-FPP have to be prepared individual (no cuttings existing).

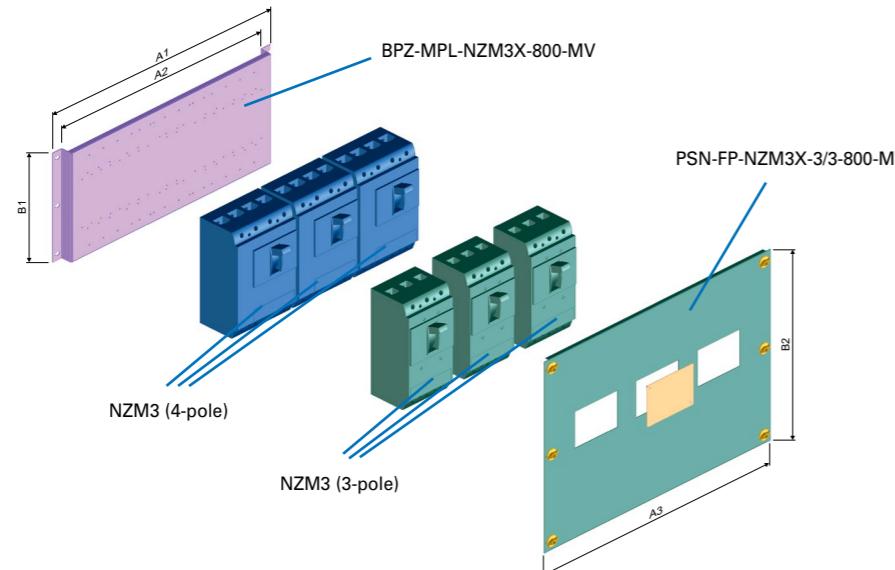
**Basic dimensions of the circuit breakers NZM**

Front Plate for Several Devices such as NZM, PSN-FP / PSN-FP/S

- To cover the areas occupied by circuit breakers
- Metal front plates making contact with the enclosure
- Material: Sheet steel, powder-coated, RAL 7035
- Scope of delivery: 1 Front plate incl. empty-space cover (with NZM2, NZM3 and NZM4)

Dimensions (mm)

Type	Max. number of 3-/4-pole NZMs	A3	B2	Number of empty-space covers
PSN-FP-NZM1X-2/2-400/200-MV	2x NZM1 / 2x NZM1	320	199	1x NZM1 Cover plate
PSN-FP/S-NZM1X-3/3-600/200-MV	3x NZM1 / 3x NZM1	520	199	2x NZM1 Cover plates
PSN-FP/S-NZM1X-4/4-800/200-MV	4x NZM1 / 4x NZM1	720	199	3x NZM1 Cover plates
PSN-FP/S-NZM1X-5/5-1000/200-MV	5x NZM1 / 5x NZM1	920	199	4x NZM1 Cover plates
PSN-FP/S-NZM1X-6/6-1200/200-MV	6x NZM1 / 6x NZM1	1120	199	5x NZM1 Cover plates
PSN-FP-NZM2X-2/0-400/300-MV	2x NZM2 / -	320	299	1x NZM2 Cover plate
PSN-FP-NZM2X-3/2-600/300-MV	3x NZM2 / 2x NZM2	520	299	2x NZM2 Cover plates
PSN-FP-NZM2X-4/4-800/300-MV	4x NZM2 / 4x NZM2	720	299	3x NZM2 Cover plates
PSN-FP-NZM2X-4/4-1000/300-MV	4x NZM2 / 4x NZM2	920	299	3x NZM2 Cover plates
PSN-FP-NZM2X-4/4-1200/300-MV	4x NZM2 / 4x NZM2	1120	299	3x NZM2 Cover plates
PSN-FP-NZM3X-2/2-600/500-MV	2x NZM3 / 2x NZM3	520	499	1x NZM3 Cover plate
PSN-FP-NZM3X-3/3-800/500-MV	3x NZM3 / 3x NZM3	720	499	2x NZM3 Cover plates
PSN-FP-NZM3X-3/3-1200/500-MV	3x NZM3 / 3x NZM3	920	499	2x NZM3 Cover plates
PSN-FP-NZM3X-3/3-1200/500-MV	3x NZM3 / 3x NZM3	1120	499	2x NZM3 Cover plates

**Mounting Plate for NZM symmetrical, BPZ-MPL-NZM..-...-MX**

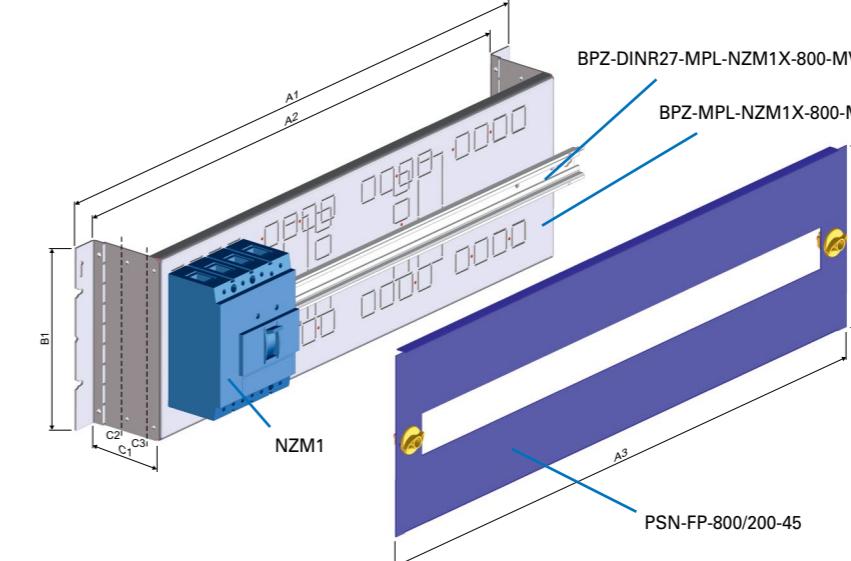
- For mounting one NZM in horizontal position or several NZMs in vertical position
- Connecting the NZM circuit breakers can be done from the rear (cut-outs are prepared)
- Suitable for wall-mounted or floor-standing enclosures with ProfiSNAP mounting frame
- Material: Sheet steel (2 mm), galvanized
- Scope of delivery: 1 Mounting plate, mounting accessories

Dimensions (mm)

Type	Max. number of 3-/4-pole NZMs	A1	A2	B1	C1
BPZ-MPL-NZM1X-600-MX	3x NZM1 / 3x NZM1	492	432	199	87
BPZ-MPL-NZM1X-800-MX	4x NZM1 / 4x NZM1	692	632	199	87
BPZ-MPL-NZM2X-600-MX	2x NZM2 / 2x NZM2	492	432	199	52
BPZ-MPL-NZM2X-800-MX	3x NZM2 / 3x NZM3	692	632	199	52
BPZ-MPL-NZM3-600-MX	1x NZM3 / 1x NZM3	492	432	299	34
BPZ-MPL-NZM3-800-MX	1x NZM3 / 1x NZM3	692	632	299	34

DIN Rail for Mounting Plate NZM1 symmetrical, BPZ-DINR

- For mounting installation devices next to 1x NZM1 (vertical) on the same level
- For mounting plate 600 mm: 1x BPZ-DINR17-MPL-NZM1X-600-MV
- For mounting plate 800 mm: 1x BPZ-DINR27-MPL-NZM1X-800-MV
- Material: Aluminium
- Scope of delivery: 1 DIN rail, mounting accessories

Example of application

Fixing Set for max. Installation Depth of the NZM symmetrical Mounting Plate, BPZ-KIT-MPL-NZMX-XDV/XMV/XR-XVTL

- For mounting an NZM circuit breaker with swing handle (NZM-XDV), with mechanical lock (NZM-XMV) or remote operation (NZM-XR...)
- Depending on the application, the fixing straps and/or the mounting plate need to be shortened accordingly
- Due to the installation depth, the set in combination with the mounting plate can only be used in xE Light distribution boards
- Material: Sheet steel (2 mm), galvanized
- Scope of delivery: 4 Fixing straps, mounting accessories

Examples of application for the fixing set BPZ-KIT-MPL-NZMX-XDV/XMV/XR-XVTL

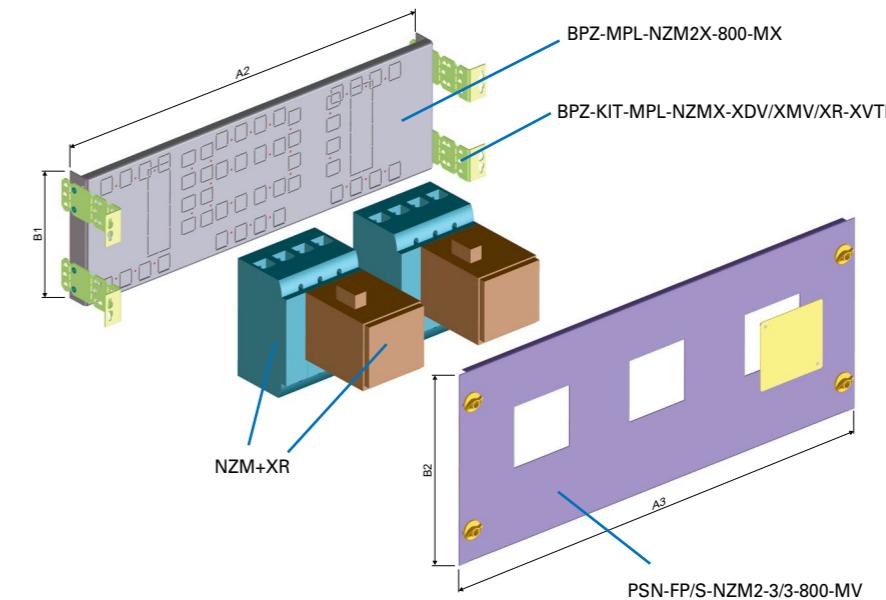
Application	Type of mounting plate (Width = 800 mm)	Fixing set required?	Notes
NZM1 with standard toggle	BPZ-MPL-NZM1X-800-MX	NO	Mounting plate in standard depth (C1)
NZM1 with swing handle on circuit breaker (XDV)	BPZ-MPL-NZM1X-800-MX	NO	Fix mounting plate in C2 position
NZM1 with mechanical lock (XMV)	BPZ-MPL-NZM1X-800-MX	NO	Fix mounting plate in C3 position
NZM2 with standard toggle	BPZ-MPL-NZM2X-800-MX	NO	Mounting plate in standard depth (C1)
NZM2 with swing handle on circuit breaker (XDV)	BPZ-MPL-NZM2X-800-MX	NO	Fix mounting plate in C3 position
NZM2 with mechanical lock (XMV)	BPZ-MPL-NZM2X-800-MX	Yes	Setup acc. to assembly instructions
NZM2 with remote operation (XR)	BPZ-MPL-NZM2X-800-MX	Yes	Setup acc. to assembly instructions
NZM3 with standard toggle	BPZ-MPL-NZM3-800-MX	NO	Mounting plate in standard depth (C1)
NZM3 with swing handle on circuit breaker (XDV)	BPZ-MPL-NZM3-800-MX	Yes	Setup acc. to assembly instructions
NZM3 with mechanical lock (XMV)	BPZ-MPL-NZM3-800-MX	Yes	Setup acc. to assembly instructions
NZM3 with remote operation (XR)	BPZ-MPL-NZM3-800-MX	Yes	Setup acc. to assembly instructions
NZM4 with standard toggle	BPZ-MPL-NZM4-800-MX-XVTL	NO	Mounting plate in standard depth (C1)
NZM4 with swing handle on circuit breaker (XDV)	BPZ-MPL-NZM4-800-MX-XVTL	Yes	Setup acc. to assembly instructions
NZM4 with remote operation (XR)	BPZ-MPL-NZM4-800-MX-XVTL	NO	Order 2x XBBB085-1 + 2x XSFS06-1

Front Plate NZM symmetrical, PSN-FP/S

- To cover the areas occupied by circuit breakers
- Metal front plates making contact with the enclosure
- Material: Sheet steel, powder-coated, RAL 7035
- Scope of delivery: 1 Front plate (with empty-space cover where applicable)

Dimensions (mm)

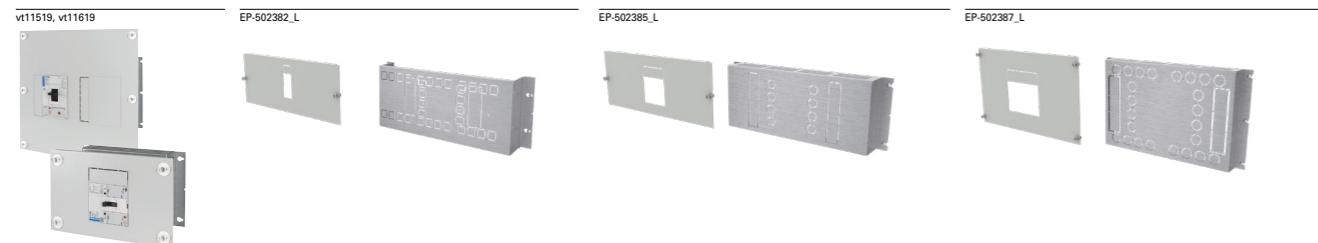
Application	Max. number of 4-pole NZMs	A3	B2	Number of empty-space cover plates
PSN-FP/S-NZM1X-3/3-600/200-MV	3x NZM1 (vertical)	520	199	2x NZM1 Cover plate
PSN-FP/S-NZM1X-3/3-600/200-MV	1x NZM1+XFI (vertical)	520	199	2x NZM1 Cover plate
PSN-FP/S-NZM1-600/200-MH	1x NZM1 (horizontal)	520	199	-
PSN-FP/S-NZM1X-4/4-800/200-MV	4x NZM1 (vertical)	720	199	3x NZM1 Cover plate
PSN-FP/S-NZM1X-4/4-800/200-MV	2x NZM1+XFI (vertical)	720	199	3x NZM1 Cover plate
PSN-FP/S-NZM1-800/200-MH	1x NZM1 (horizontal)	720	199	-
PSN-FP/S-NZM2-600/300-MV	1x NZM2 (vertical)	520	299	-
PSN-FP/S-NZM2X-2/2-600/300-MV	2x NZM2 (vertical)	520	299	1x NZM2 Cover plate
PSN-FP/S-NZM2-600/400-MV-XFI	1x NZM2+XFI (vertical)	520	399	-
PSN-FP/S-NZM2-600/200-MH	1x NZM2 (horizontal)	520	199	-
PSN-FP/S-NZM2-600/200-MH-XFI	1x NZM2+XFI (horizontal)	520	199	-
PSN-FP/S-NZM2-800/300-MV	1x NZM2 (vertical)	720	299	-
PSN-FP/S-NZM2X-3/3-800/300-MV	3x NZM2 (vertical)	720	299	2x NZM2 Cover plate
PSN-FP/S-NZM2-800/400-MV-XFI	1x NZM2+XFI (vertical)	720	399	-
PSN-FP/S-NZM2-800/200-MH	1x NZM2 (horizontal)	720	199	-
PSN-FP/S-NZM2-800/200-MH-XFI	1x NZM2+XFI (horizontal)	720	199	-
PSN-FP/S-NZM3-600/400-MV	1x NZM3 (vertical)	520	399	-
PSN-FP/S-NZM3-600/400-MH	1x NZM3 (horizontal)	520	399	-
PSN-FP/S-NZM3-800/400-MV	1x NZM3 (vertical)	720	399	-
PSN-FP/S-NZM3-800/400-MH	1x NZM3 (horizontal)	720	399	-

Front plate NZM symmetrisch, PSN-FP/S**Example of application**

xEnergy Distribution Boards

Mounting kits for Moulded Case Circuit Breaker

xEnergy
Basic
Sheet 1/2



Width [mm]	Installation back frame PDE1 single Toggle operation Rear connection (except PDE1 width 400 mm) RAL 7035 grey	PDE2 single	PDE3 single
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Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.
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Mounting kits for Moulded Case Circuit Breaker, Power Defense 3-/4-pole, frame size 1-3 (horizontal configuration)

400	PSN-PDE1-400/200-MH EP-502381	PSN-PDE2-400/200-MH EP-502384	-
600	PSN-PDE1-600/200-MH EP-502382	PSN-PDE2-600/200-MH EP-502385	PSN-PDE3-600/300-MH EP-502387
800	PSN-PDE1-800/200-MH EP-502383	PSN-PDE2-800/200-MH EP-502386	PSN-PDE3-800/300-MH EP-502388
1000	-	-	-

xEnergy
Basic
Sheet 2/2



Installation back frame PDE1 multiple Toggle operation Rear or top/bottom connection RAL 7035 grey	Installation back frame PDE2 multiple (except width 400 mm)	Installation back frame PDE3 multiple (except width 400 mm)
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Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.
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Mounting kits for Moulded Case Circuit Breaker, Power Defense 3-/4-pole, frame size 1-3 (vertical configuration)

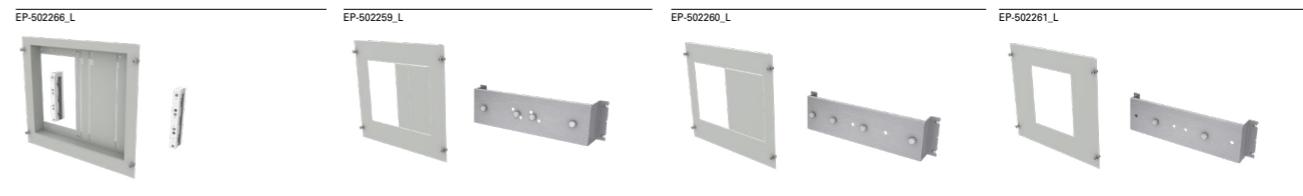
PSN-PDE1X-2/2-400/200-MV EP-502372 (up to 2x PDE1)	PSN-PDE2-400/300-MV EP-502375	PSN-PDE3-400/500-MV EP-502378
PSN-PDE1X-3/3-600/200-MV EP-502373 (up to 3x PDE1)	PSN-PDE2X-2/2-600/300-MV EP-502376 (up to 2x PDE2)	PSN-PDE3X-2/2-600/500-MV EP-502379 (up to 2x PDE3)
PSN-PDE1X-4/4-800/200-MV EP-502374 (up to 4x PDE1)	PSN-PDE2X-3/3-800/300-MV EP-502377 (up to 3x PDE2)	PSN-PDE3X-3/3-800/500-MV EP-502380 (up to 3x PDE3)
-	-	-



Width [mm]	Installation back frame XNH00 or mounting fuse sockets multiple	Mounting side wall (MSW) XNH00 or mounting fuse sockets multiple
	Panel mounting incl. prepared mounting plate RAL 7035 grey	3-pole busbar mounting (SASY60i) without copper busbars RAL 7035 grey
	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

Mounting kits for Fuse Switch Disconnectors, frame size 00, XNH00 and mounting fuse

400	PSN-XNH00X-2/1-400/300-MV EP-502255 (up to 2x XNH00-3p / 1x XNH00-4p)	PSN-SASY-XNH00-400/300-3P EP-502269 (up to 2x XNH00-3p)	PSN-SASY-XNH00-400/300-3P-MSW EP-502270 (up to 2x XNH00-3p)
600	PSN-XNH00X-4/1-600/300-MV EP-502258 (up to 4x XNH00-3p / 1x XNH00-4p)	PSN-SASY-XNH00-600/300-3P EP-502271 (up to 4x XNH00-3p)	PSN-SASY-XNH00-600/300-3P-MSW EP-502272 (up to 4x XNH00-3p)
800	PSN-XNH00X-6/1-800/300-MV EP-502262 (up to 6x XNH00-3p / 1x XNH00-4p)	PSN-SASY-XNH00-800/300-3P EP-502273 (up to 5x XNH00-3p)	PSN-SASY-XNH00-800/300-3P-MSW EP-502274 (up to 5x XNH00-3p)
1000	-	PSN-SASY-XNH00-1000/300-3P EP-502275 (up to 6x XNH00-3p)	PSN-SASY-XNH00-1000/300-3P-MSW EP-502276 (up to 6x XNH00-3p)
1200	-	PSN-SASY-XNH00-1200/300-3P EP-502277 (up to 8x XNH00-3p)	PSN-SASY-XNH00-1200/300-3P-MSW EP-502278 (up to 8x XNH00-3p)



Width [mm]	Installation back frame XNH1/2/3 - individual assembly	Installation back frame
	3-pole busbar mounting (SASY60i) without busbar system RAL 7035 grey	XNH1 single or multiple Panel mounting incl. prepared mounting plate RAL 7035 grey
	Cat. No. per unit unit = 1 pc.	Cat. No. per unit unit = 1 pc.

Mounting kits for Fuse Switch Disconnectors, frame size 1/2/3, XNH1/2/3

-	PSN-XNH1-1/0-400/450-MV EP-502256 (up to 1x XNH1-3p)	PSN-XNH2-1/X-400/450-MV EP-502257 (up to 1x XNH2-3p)	-
-	PSN-SASY-XNH1/2/3-600/450-3P EP-502266 (up to 2x XNH1 / 2x XNH2 / 1x XNH3)	PSN-XNH1X-2/1-600/450-MV EP-502259 (up to 2x XNH1-3p / 1x XNH1-4p)	PSN-XNH2X-2/X-600/450-MV EP-502260 (up to 2x XNH2-3p)
-	PSN-SASY-XNH1/2/3-800/450-3P EP-502267 (up to 3x XNH1 / 3x XNH2 / 2x XNH3)	PSN-XNH1X-3/1-800/450-MV EP-502263 (up to 3x XNH1-3p / 1x XNH1-4p)	PSN-XNH3-1/0-600/450-MV EP-502261 (up to 1x XNH3-3p)
-	PSN-SASY-XNH1/2/3-1000/450-3P EP-502268 (up to 4x XNH1 / 3x XNH2 / 3x XNH3)	-	PSN-XNH3X-2/1-800/450-MV EP-502265 (up to 2x XNH3-3p / 1x XNH3-4p)
-	-	-	-

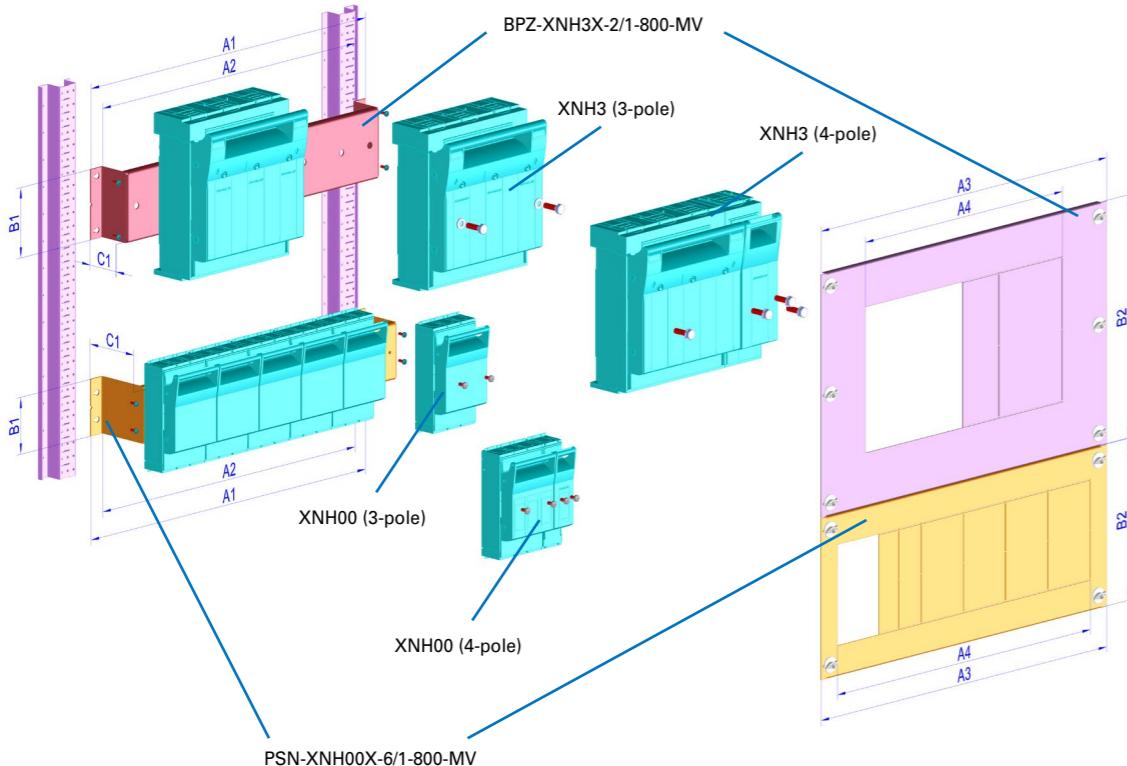
Mounting Set for NH Fuse Disconnector Switches XNH, PSN-XNH

- Mounting set for fixing XNH fuse disconnector switches on a mounting plate
- Sizes (rated operating current)
XNH00 (160 A), XNH1 (250 A), XNH2 (400 A), XNH3 (630 A)
- Front panel is prepared for mounting a 3-pole device, additional perforations for multiple mounting are prepared and can be knocked out according to your requirements by means of a suitable tool
- Finger-safe finish is guaranteed even without using an additional empty-space cover
- Suitable for both wall-mounted and floor-standing cabinets with ProfiSNAP mounting frame (no set-up on MSW mounting-side-panel possible)
- Material
Mounting plate: Steel sheet (2 mm), galvanized
Front panel: Steel sheet, powder-coated, RAL 7035 or RAL 9016
- Scope of delivery: 1 Mounting plate, 1 front panel, fixing material

Dimensions (mm)

Type	Max. number of 3-/4-pole XNH	A1	A2	A3	A4	B1	B2	C1
PSN-XNH00X-2/1-400/300-MV	2x XNH00 / 1x XNH00 *)	292	236	320	212	105	299	110
PSN-XNH00X-4/1-600/300-MV	4x XNH00 / 1x XNH00 *)	492	436	520	425	105	299	110
PSN-XNH00X-6/1-800/300-MV	6x XNH00 / 1x XNH00 *)	692	636	720	638	105	299	110
PSN-XNH1-0/400/450-MV	1x XNH1 / —	292	236	320	180	130	449	85
PSN-XNH1X-2/1-600/450-MV	2x XNH1 / 1x XNH1 *)	492	436	520	365	130	449	85
PSN-XNH1X-3/1-800/450-MV	3x XNH1 / 1x XNH1 *)	692	636	720	550	130	449	85
PSN-XNH2-1/X-400/450-MV	1x XNH2 / —	292	236	320	206	130	449	65
PSN-XNH2X-2/X-600/450-MV	2x XNH2 / —	492	436	520	417	130	449	65
PSN-XNH2X-3/X-800/450-MV	3x XNH2 / —	692	636	720	628	130	449	65
PSN-XNH3-1/0-600/450-MV	1x XNH3 / —	492	436	520	246	130	449	65
PSN-XNH3X-2/1-800/450-MV	2x XNH3 / 1x XNH3 *)	692	636	720	497	130	449	65

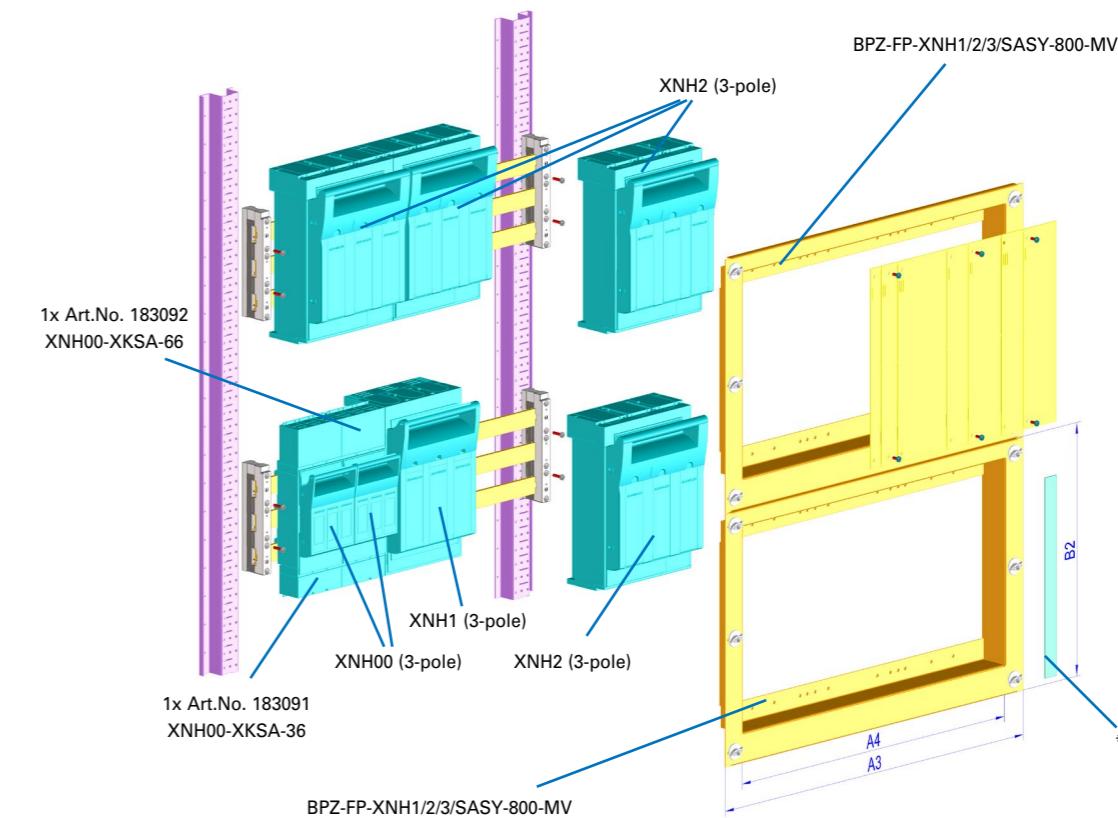
*) Where necessary, it is possible to install several 4-pole devices, but the cut-out will then need to be adjusted accordingly.

Example of application**Front Panel for NH Fuse Disconnector Switches XNH when installed on a busbar of 60 mm (SASY 60i) at the base frame**

- When XNH devices are used for a 60 mm busbar system
- Sizes (rated operating current)
XNH1 (250 A), XNH2 (400 A), XNH3 (630 A)
- The busbar system (SASY 60i) can directly be fixed at the base frame without using any mounting brackets
- If devices of the same size (except XNH00) are installed, the empty-space cover included in the delivery complies with all requirements. It only needs to be adjusted to the number available.
- The front panel adjusts itself to the required level of the devices. It is also possible to install devices of different sizes next to each other (in this case it is not possible to use the empty-space cover).
- Suitable for wall-mounted and floor-standing cabinets with a ProfiSNAP mounting frame
- Material: Sheet steel, powder-coated, RAL 7035
- Scope of delivery: 1 Front panel, 1 empty-space cover

Dimensions (mm)

Type	Max. number of 3-pole XNH (same size)	Max. number of 3-pole XNH00 with cover for connection area	A3	A4	B2
PSN-SASY-XNH1/2/3-600/450-3P	2x XNH1 / 2x XNH2 / 1x XNH3	4x XNH00	520	434	449
PSN-SASY-XNH1/2/3-800/450-3P	3x XNH1 / 3x XNH2 / 2x XNH3	5x XNH00	720	634	449

Example of application

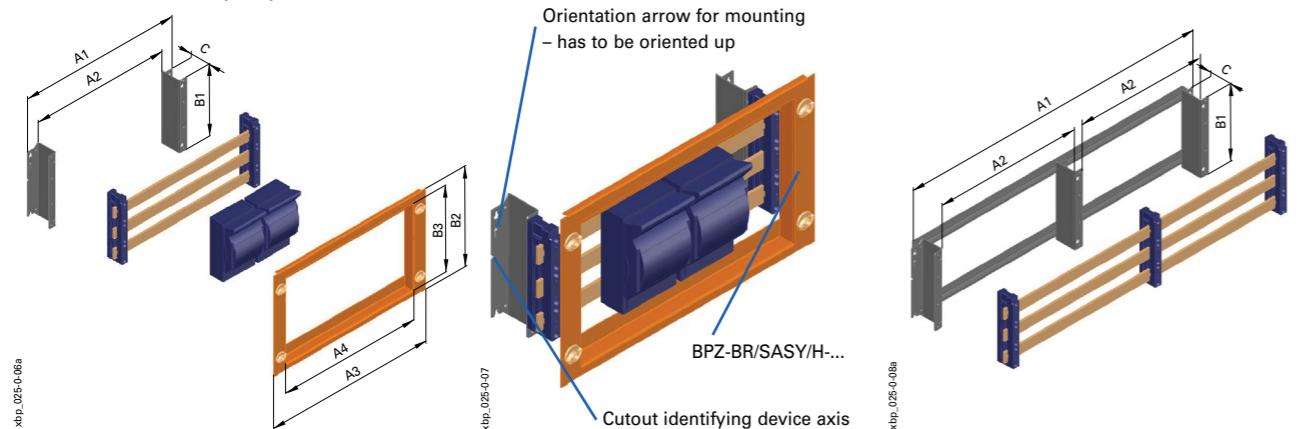
*) Individual cover strip made of insulation material to be used when installing devices of different size (depending on the requirements - to be prepared by the customer)

Mounting sets for 3-pole IEC busbar support 630 A SASY 60i, PSN-SASY-XNH00...

- Mounting sets for fixing the busbar supports BBS-3/FL
- Material
 - Front plate: Sheet steel, powder-coated, RAL 7035
 - Mounting angles: Sheet steel (2 mm), zinc-coated
- For surface mounted or floor-standing distribution boards
- Scope of delivery:
 - Width 400 to 800 mm: 2 fixing angles, 1 front plate, fixing material
 - Width 1000 to 1200 mm: 3 fixing angles, 2 profiles, 1 front plate, fixing material

Dimensions (mm)

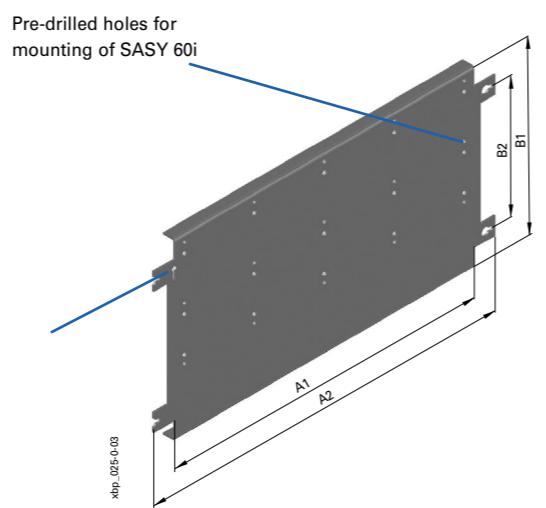
Type	Mounting angles				Front plate				Max. number of 3-pole XNH00 without connection section cover	
	Outside dimensions		Inside dimensions		A1	B1	A2	C		
	Width	Height	Width	Height						
PSN-SASY-XNH00-400/300-3P	296	215	222	63	320	300	234	194	2x XNH00	
PSN-SASY-XNH00-600/300-3P	496	215	422	63	520	300	434	194	4x XNH00	
PSN-SASY-XNH00-800/300-3P	696	215	622	63	720	300	634	194	5x XNH00	
PSN-SASY-XNH00-1000/300-3P	896	215	398	63	920	300	834	194	6x XNH00	
PSN-SASY-XNH00-1200/300-3P	1096	215	498	63	1120	300	1034	194	8x XNH00	

VFor board widths 400, 600, 800 mm**Mounting plates with pre-drilled holes for mounting busbar holders SASY 60i BPZ-MPLSASY**

- For mounting of holders of SASY 60i system
- Material: Sheet steel (2 mm), zinc-coated
- Scope of delivery: 1 mounting plate, fixing material

Dimensions (mm)

Type	Width		Height		Number of BEL elements on the side
	A1	A2	B1	B2	
BPZ-MPLSASY-600	488	428	250	175	2
BPZ-MPLSASY-800	688	648	250	175	2
BPZ-MPLSASY-1000	888	846	250	175	2
BPZ-MPLSASY-1200	1088	1046	250	175	2



xEnergy Distribution Boards

Mounting kits for BZM, Dumeco and QSA



Width [mm]	Installation back frame BZM1/2 single or multiple (up to 400 A)	Installation back frame Dumeco 160 - 400 A single	Installation back frame Dumeco 630 - 1000 A *)	Installation back frame QSA 63 - 160 A single	Installation back frame QSA 160 - 800 A single *)
Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
per unit unit = 1 pc.	per unit unit = 1 pc.	per unit unit = 1 pc.	per unit unit = 1 pc.	per unit unit = 1 pc.	per unit unit = 1 pc.

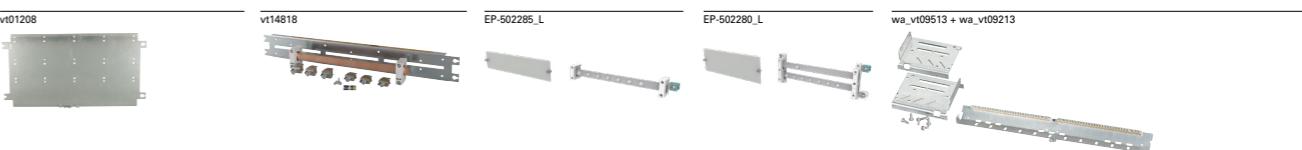
Mounting kits for BZM, Dumeco and QSA

400	PSN-BZM 1/2-400/300-MV EP-502367	PSN-DMV 160/400-400/300-MV-RH EP-502389	PSN-DMV 630/1000-400/400-MV-RH EP-502392	PSN-QSA 63/160-400/300-MV-RH EP-502395	-
600	PSN-BZM 1/2-600/300-MV EP-502368	PSN-DMV 160/400-600/300-MV-RH EP-502390	PSN-DMV 630/1000-600/400-MV-RH EP-502393	PSN-QSA 63/160-600/300-MV-RH EP-502396	PSN-QSA 200/400-600/300-MV-RH EP-502398 PSN-QSA 400/800-600/400-MV-RH EP-502400
800	PSN-BZM 1/2-800/300-MV EP-502369	PSN-DMV 160/400-800/300-MV-RH EP-502391	PSN-DMV 630/1000-800/400-MV-RH EP-502394	PSN-QSA 63/160-800/300-MV-RH EP-502397	PSN-QSA 200/400-800/300-MV-RH EP-502399 PSN-QSA 400/800-800/400-MV-RH EP-502401
1000	PSN-BZM 1/2-1000/300-MV EP-502370	-	-	-	-
1200	PSN-BZM 1/2-1200/300-MV EP-502371	-	-	-	-

*) Attention: The rated current of the main incomer must not exceed the nominal rating of the switchgear assembly!

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Mounting kits for Earthing and Neutral conductors



Width [mm]	Installation back frame Panel mounting	Installation back frame Panel mounting	Mounting side wall (MSW) Fixing brackets + support rails	Installation back frame Corner tower set (short) / terminal support bar Intended for use with screw-type terminals KL and plug-type terminals KSK
3-4-pole busbar mounting (SASY60i) without busbar system	1-pole busbar mounting (SASY60i) incl. 1-pole busbar system (20x5 mm) and universal conductor terminals AKU up to 70 mm ² terminal cross-section	1-pole busbar mounting (SASY60i) incl. 1-pole busbar system (30x5 mm)	2-pole busbar mounting (SASY60i) incl. 2-pole busbar system (30x5 mm) (flat-pack)	No need to order BPZ-CTS-S equipped with screw-type terminals up to 35mm ² terminal cross-section

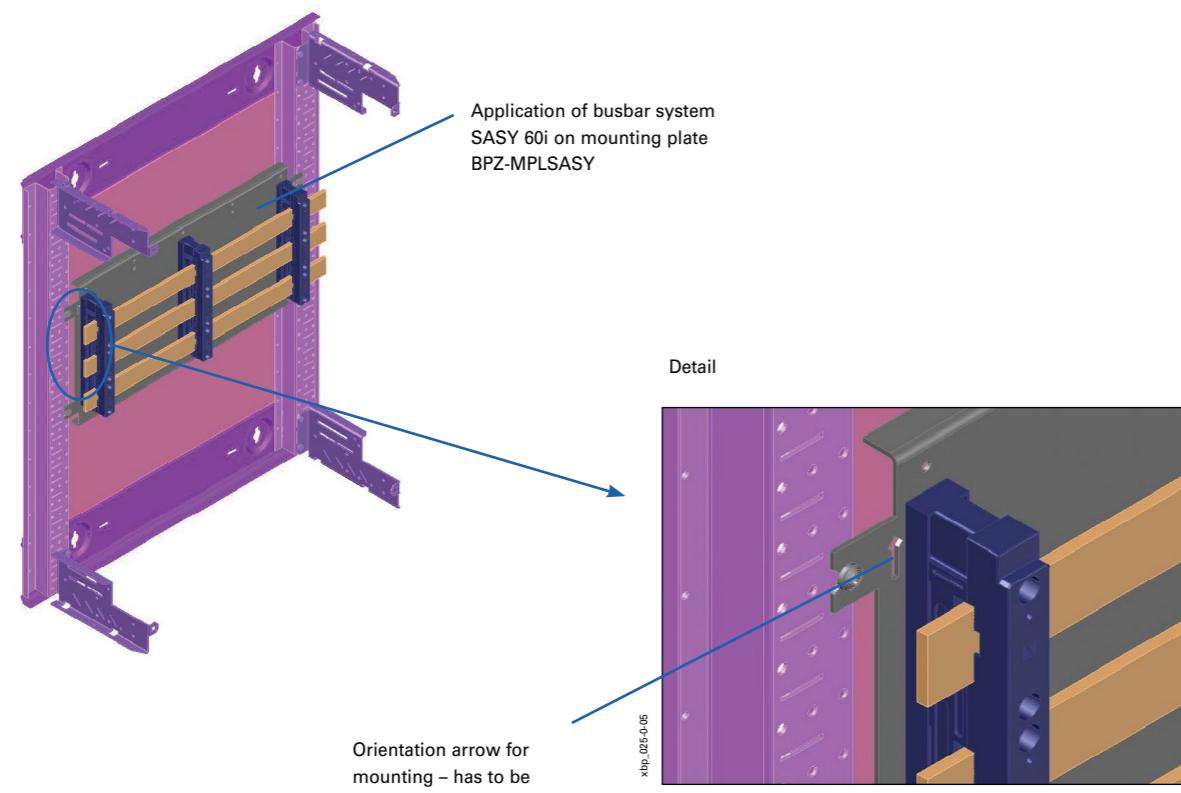
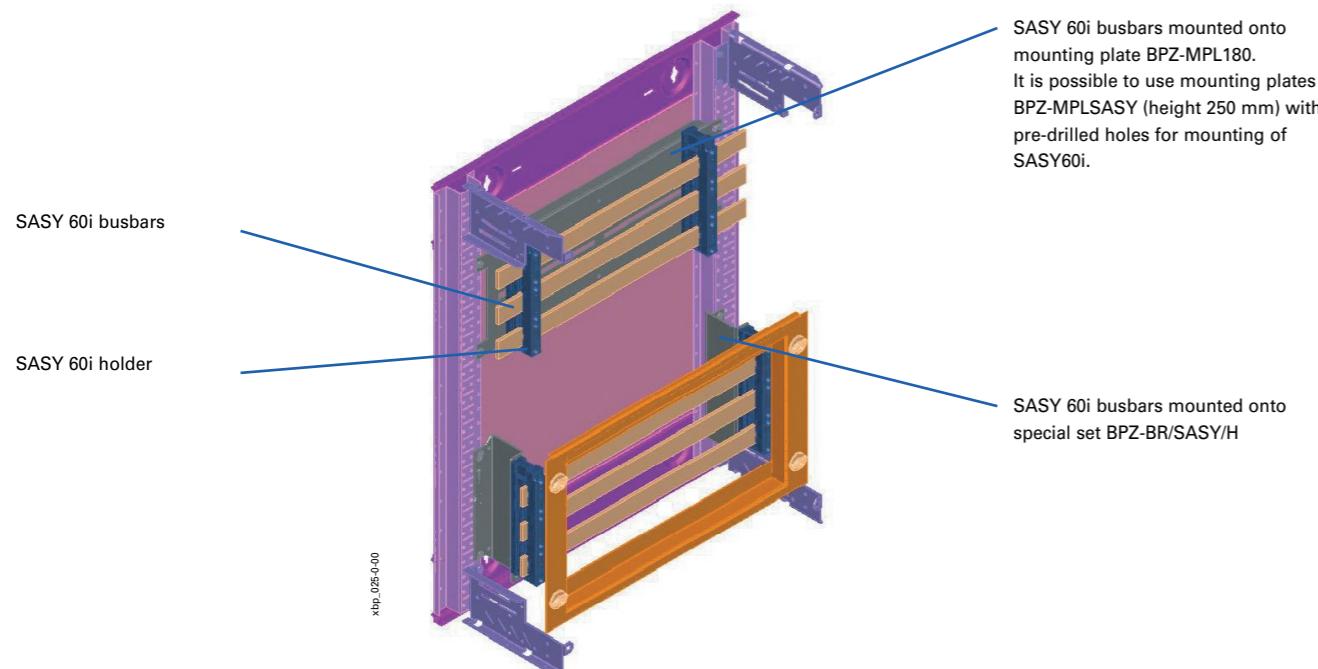
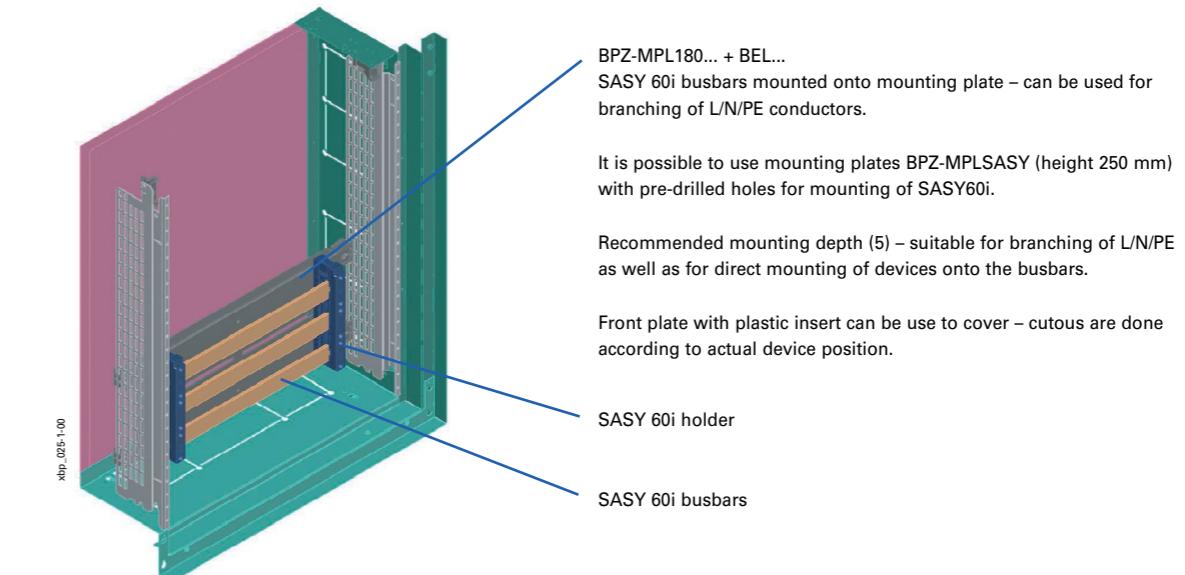
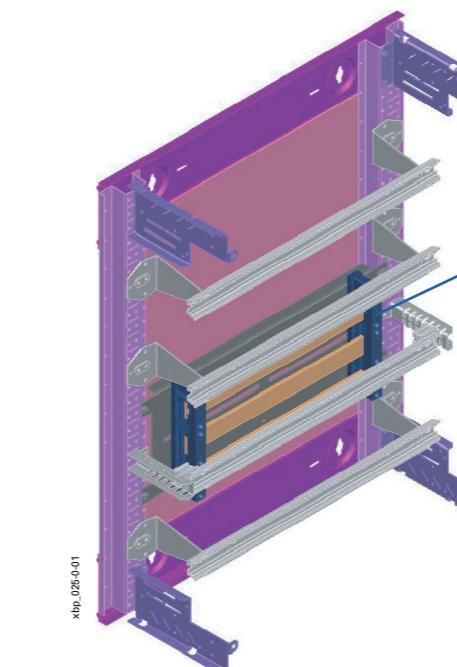
Cat. No. per unit unit = 1 pc.				
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Mounting kits for Earthing and Neutral conductors

400	-	BPZ-GND-400 187867	PSN-SASY-PE-400/100-1P-MSW EP-502284	PSN-SASY-N/PE-400/150-2P-MSW EP-502279	BPZ-CTS-S 106445	BPZ-CTS-S 106445
600	BPZ-MPLSASY-600 114830	BPZ-GND-600 187868	PSN-SASY-PE-600/100-1P-MSW EP-502285	PSN-SASY-N/PE-600/150-2P-MSW EP-502280	BPZ-CTS-S 106445	BPZ-CTS-S 106445
800	BPZ-MPLSASY-800 114831	BPZ-GND-800 187869	PSN-SASY-PE-800/100-1P-MSW EP-502286	PSN-SASY-N/PE-800/150-2P-MSW EP-502281	BPZ-CTS-S 106445	BPZ-CTS-S 106445
1000	BPZ-MPLSASY-1000 114832	BPZ-GND-1000 187870	PSN-SASY-PE-1000/100-1P-MSW EP-502287	PSN-SASY-N/PE-1000/150-2P-MSW EP-502282	BPZ-CTS-S 106445	BPZ-CTS-S 106445
1200	BPZ-MPLSASY-1200 114833	BPZ-GND-1200 187871	PSN-SASY-PE-1200/100-1P-MSW EP-502288	PSN-SASY-N/PE-1200/150-2P-MSW EP-502283	BPZ-CTS-S 106445	BPZ-CTS-S 106445

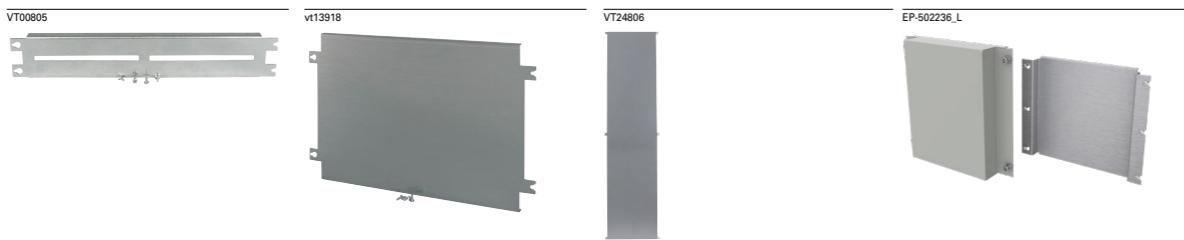
Example of mounting of busbar system SASY 60i

- The busbars are fed via circuit breaker NZM
- The busbars serve as a connection point for particular devices

**Example of mounting of busbar system SASY 60i**

xEnergy Distribution Boards

Mounting plates for universal fixing of different components

xEnergy
Basic
Sheet 1/5

Width [mm]	Height int. [mm]	Installation back frame / Mounting side wall (MSW) Mounting plate (punched) with cut-out in the center to fix devices by using cage nuts Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate (blind) without any cut-out Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate (section-high) without any cut-out Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate without any cut-out incl. ProfiSNAP Front Plate (max. depth) Galvanized sheet-metal 2 mm
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit

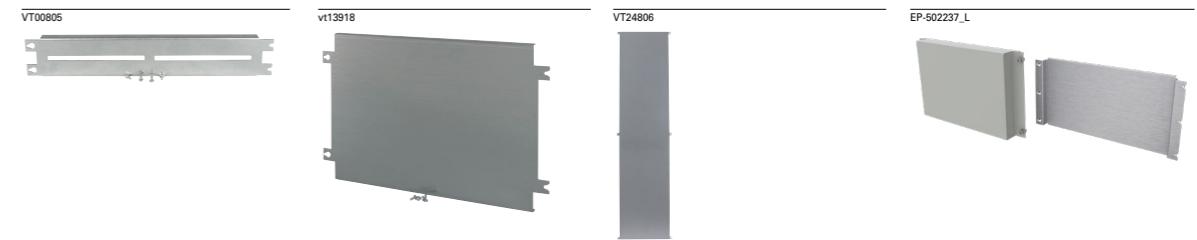
Mounting plates for universal fixing of different components, BPZ-MPL...

400	30	BPZ-MPL30-400 104316	-	-	-
80	BPZ-MPL80-400 286765	-	-	-	-
180	BPZ-MPL180-400 102472	-	-	-	-
100	-	BPZ-MPL100-400 114799	-	-	-
200	-	BPZ-MPL200-400 114805	-	-	-
300	-	BPZ-MPL300-400 114811	-	PSN-FP/MPL-400/300-BL EP-502236	-
400	-	BPZ-MPL400-400 114817	-	-	-
500	-	BPZ-MPL500-400 114823	-	-	-
350	-	-	BPZ-MPL350-400 108333	-	-
650	-	-	BPZ-MPL650-400 108334	-	-
950	-	-	BPZ-MPL950-400 108335	-	-
1150	-	-	BPZ-MPL1150-400 108336	-	-
1450	-	-	BPZ-MPL1450-400 108337	-	-
1650	-	-	BPZ-MPL1650-400 108338	-	-
1950	-	-	BPZ-MPL1950-400 108339	-	-

xEnergy
Basic
Sheet 2/5

xEnergy Distribution Boards

Mounting plates for universal fixing of different components



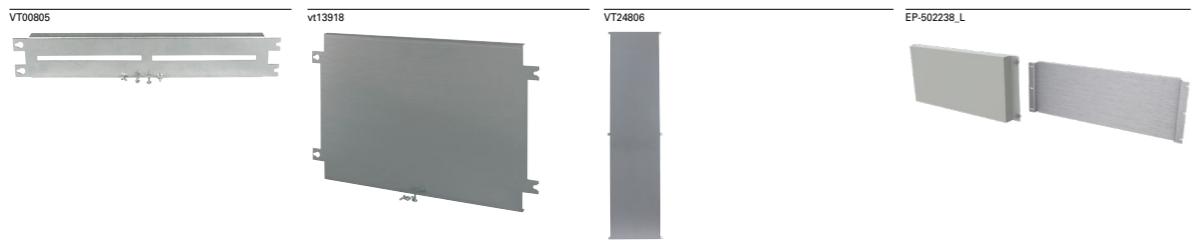
Width [mm]	Height int. [mm]	Installation back frame / Mounting side wall (MSW) Mounting plate (punched) with cut-out in the center to fix devices by using cage nuts Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate (blind) without any cut-out Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate (section-high) without any cut-out Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate without any cut-out incl. ProfiSNAP Front Plate (max. depth) Galvanized sheet-metal 2 mm
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit

600	30	BPZ-MPL30-600 104317	-	-	-
80	BPZ-MPL80-600 286766	-	-	-	-
180	BPZ-MPL180-600 102473	-	-	-	-
100	-	BPZ-MPL100-600 114801	-	-	-
200	-	BPZ-MPL200-600 114807	-	-	-
300	-	BPZ-MPL300-600 114813	-	PSN-FP/MPL-600/300-BL EP-502237	-
400	-	BPZ-MPL400-600 114819	-	-	-
500	-	BPZ-MPL500-600 114825	-	-	-
350	-	-	BPZ-MPL350-600 108340	-	-
650	-	-	BPZ-MPL650-600 108341	-	-
950	-	-	BPZ-MPL950-600 108342	-	-
1150	-	-	BPZ-MPL1150-600 108343	-	-
1450	-	-	BPZ-MPL1450-600 108344	-	-
1650	-	-	BPZ-MPL1650-600 108345	-	-
1950	-	-	BPZ-MPL1950-600 108346	-	-

xEnergy Distribution Boards

Mounting plates for universal fixing of different components

xEnergy
Basic
Sheet 3/5



Width [mm]	Height int. [mm]	Installation back frame / Mounting side wall (MSW) Mounting plate (punched) with cut-out in the center to fix devices by using cage nuts Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate (blind) without any cut-out Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate (section-high) without any cut-out Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate without any cut-out incl. ProfiSNAP Front Plate (max. depth) Galvanized sheet-metal 2 mm RAL 7035 grey
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit

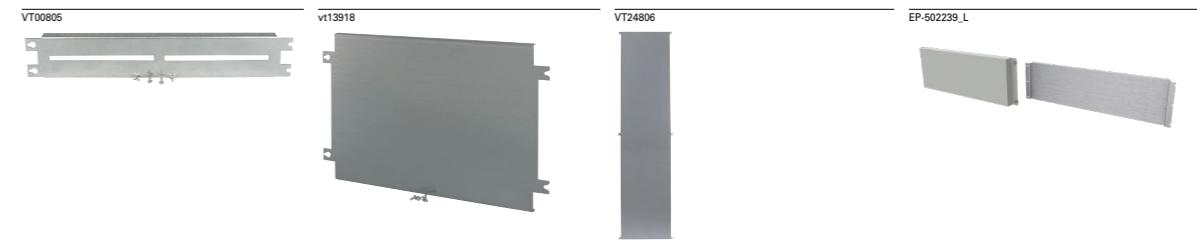
Mounting plates for universal fixing of different components, BPZ-MPL...

800	30	BPZ-MPL30-800 104318	-	-	-
80	BPZ-MPL80-800 286767	-	-	-	-
180	BPZ-MPL180-800 102474	-	-	-	-
100	-	BPZ-MPL100-800 114802	-	-	-
200	-	BPZ-MPL200-800 114808	-	-	-
300	-	BPZ-MPL300-800 114814	-	PSN-FP/MPL-800/300-BL EP-502238	PSN-FP/MPL-1000/300-BL EP-502239
400	-	BPZ-MPL400-800 114820	-	-	-
500	-	BPZ-MPL500-800 114826	-	-	-
350	-	-	BPZ-MPL350-800 108347	-	-
650	-	-	BPZ-MPL650-800 108348	-	-
950	-	-	BPZ-MPL950-800 108349	-	-
1150	-	-	BPZ-MPL1150-800 108350	-	-
1450	-	-	BPZ-MPL1450-800 108351	-	-
1650	-	-	BPZ-MPL1650-800 108352	-	-
1950	-	-	BPZ-MPL1950-800 108353	-	-

xEnergy
Basic
Sheet 4/5

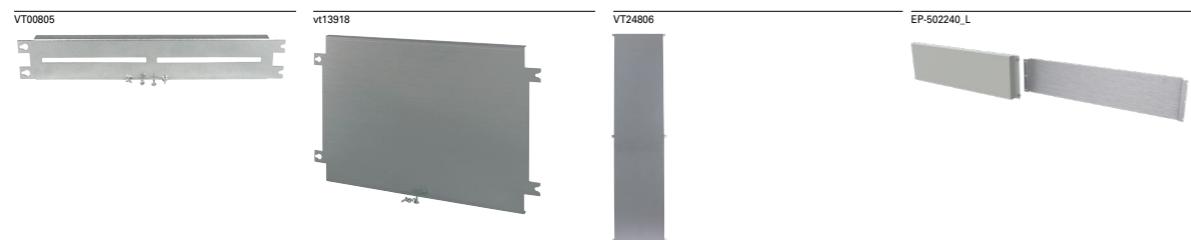
xEnergy Distribution Boards

Mounting plates for universal fixing of different components



Width [mm]	Height int. [mm]	Installation back frame / Mounting side wall (MSW) Mounting plate (punched) with cut-out in the center to fix devices by using cage nuts Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate (blind) without any cut-out Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate (section-high) without any cut-out Galvanized sheet-metal 2 mm	Installation back frame / Mounting side wall (MSW) Mounting plate without any cut-out incl. ProfiSNAP Front Plate (max. depth) Galvanized sheet-metal 2 mm RAL 7035 grey
Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit

1000	30	BPZ-MPL30-1000 104319	-	-	-
80	BPZ-MPL80-1000 293609	-	-	-	-
180	BPZ-MPL180-1000 102475	-	-	-	-
100	-	BPZ-MPL100-1000 114803	-	-	-
200	-	BPZ-MPL200-1000 114809	-	-	-
300	-	BPZ-MPL300-1000 114815	-	PSN-FP/MPL-1000/300-BL EP-502239	PSN-FP/MPL-1000/300-BL EP-502238
400	-	BPZ-MPL400-1000 114821	-	-	-
500	-	BPZ-MPL500-1000 114827	-	-	-
350	-	-	BPZ-MPL350-1000 153022	-	-
650	-	-	BPZ-MPL650-1000 153024	-	-
950	-	-	BPZ-MPL950-1000 153026	-	-
1150	-	-	BPZ-MPL1150-1000 153028	-	-
1450	-	-	BPZ-MPL1450-1000 153030	-	-
1650	-	-	BPZ-MPL1650-1000 153032	-	-
1950	-	-	BPZ-MPL1950-1000 153034	-	-



Width [mm]	Height int.	Installation back frame / Mounting side wall (MSW) with cut-out in the center to fix devices by using cage nuts	Installation back frame / Mounting side wall (MSW) without any cut-out	Installation back frame / Mounting side wall (MSW) without any cut-out	Installation back frame / Mounting side wall (MSW) without any cut-out incl. ProfiSNAP Front Plate (max. depth)
		Galvanized sheet-metal 2 mm	Galvanized sheet-metal 2 mm	Galvanized sheet-metal 2 mm	Galvanized sheet-metal 2 mm RAL 7035 grey
	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	Cat. No. per unit	unit = 1 pc.

Mounting plates for universal fixing of different components, BPZ-MPL...

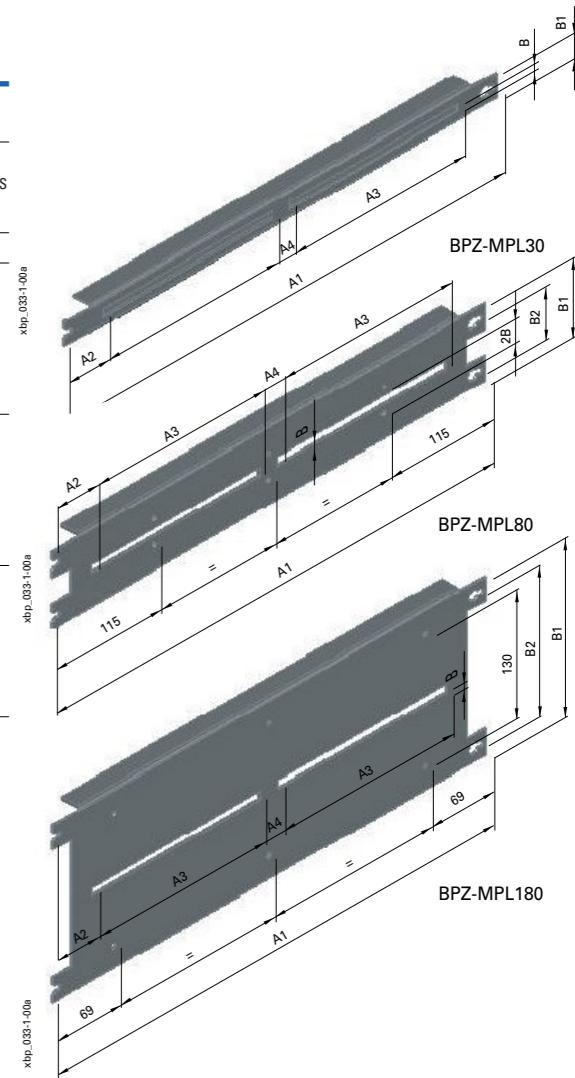
1200	30	BPZ-MPL30-1200 104330	-	-	-
80	BPZ-MPL80-1200 293610	-	-	-	-
180	BPZ-MPL180-1200 102476	-	-	-	-
100	-	BPZ-MPL100-1200 114804	-	-	-
200	-	BPZ-MPL200-1200 114810	-	-	-
300	-	BPZ-MPL300-1200 114816	-	PSN-FP/MPL-1200/300-BL EP-502240	-
400	-	BPZ-MPL400-1200 114822	-	-	-
500	-	BPZ-MPL500-1200 114828	-	-	-
350	-	BPZ-MPL350-1200 153023	-	-	-
650	-	BPZ-MPL650-1200 153025	-	-	-
950	-	BPZ-MPL950-1200 153027	-	-	-
1150	-	BPZ-MPL1150-1200 153029	-	-	-
1450	-	BPZ-MPL1450-1200 153031	-	-	-
1650	-	BPZ-MPL1650-1200 153033	-	-	-
1950	-	BPZ-MPL1950-1200 153035	-	-	-

Universal mounting plates BPZ-MPL

- For mounting busbar supports and many other devices
- Material: Sheet steel (2 mm), zinc-coated
- Scope of delivery: 1 mounting plate, fixing material

Dimensions (mm)

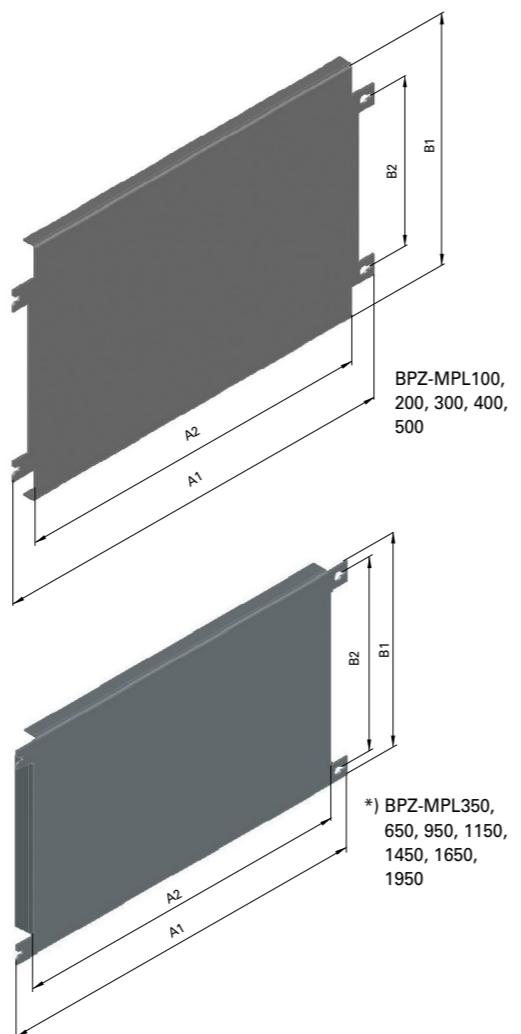
Type	Width				Height			Number of BEL elements on the side
	A1	A2	A3	A4	B1	B2	B	
BPZ-MPL30-400	288	49	190	20	30	0	8	2
BPZ-MPL30-600	488	44	190	20	30	0	8	2
BPZ-MPL30-800	688	46.5	185	20	30	0	8	2
BPZ-MPL30-1000	888	44	185	20	30	0	8	2
BPZ-MPL30-1200	1088	41.5	185	20	30	0	8	2
BPZ-MPL80-400	288	49	190	20	80	50	8	4
BPZ-MPL80-600	488	44	190	20	80	50	8	4
BPZ-MPL80-800	688	46.5	185	20	80	50	8	4
BPZ-MPL80-1000	888	44	185	20	80	50	8	4
BPZ-MPL80-1200	1088	41.5	185	20	80	50	8	4
BPZ-MPL180-400	288	49	190	20	180	150	8	4
BPZ-MPL180-600	488	44	190	20	180	150	8	4
BPZ-MPL180-800	688	46.5	185	20	180	150	8	4
BPZ-MPL180-1000	888	44	185	20	180	150	8	4
BPZ-MPL180-1200	1088	41.5	185	20	180	150	8	4



The cut-outs in the center of the mounting plate are used for fixing with cage nuts.

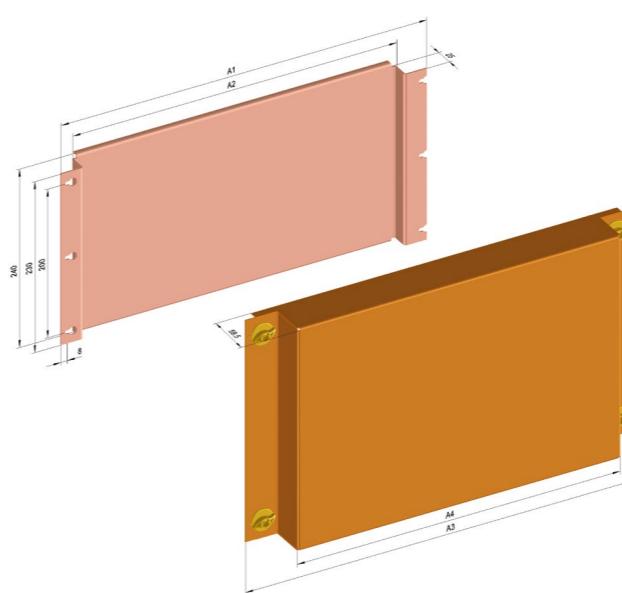
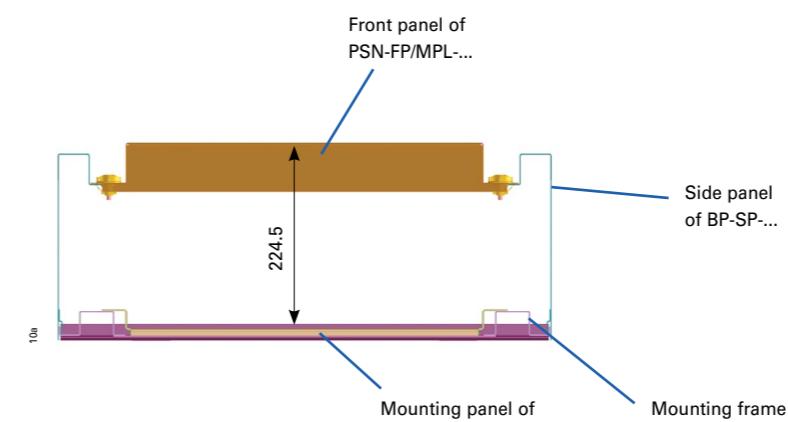
Dimensions (mm)

Type	Width	Height	Number of BEL elements on the side	
	A1	A2	B1	B2
BPZ-MPL100-400	288	246	100	50
BPZ-MPL100-425	313	253	100	50
BPZ-MPL100-600	488	446	100	50
BPZ-MPL100-800	688	648	100	50
BPZ-MPL100-1000	888	846	100	50
BPZ-MPL100-1200	1088	1046	100	50
BPZ-MPL200-400	288	246	200	150
BPZ-MPL200-425	313	253	200	150
BPZ-MPL200-600	488	446	200	150
BPZ-MPL200-800	688	648	200	150
BPZ-MPL200-1000	888	846	200	150
BPZ-MPL200-1200	1088	1046	200	150
BPZ-MPL300-400	288	246	300	200
BPZ-MPL300-425	313	253	300	200
BPZ-MPL300-600	488	446	300	200
BPZ-MPL300-800	688	648	300	200
BPZ-MPL300-1000	888	846	300	200
BPZ-MPL300-1200	1088	1046	300	200
BPZ-MPL350-400	288	246	280	250
BPZ-MPL350-600	488	446	280	250
BPZ-MPL350-800	688	648	280	250
BPZ-MPL350-1000	888	846	280	250
BPZ-MPL350-1200	1088	1046	280	250
BPZ-MPL400-400	288	246	400	300
BPZ-MPL400-425	313	253	400	300
BPZ-MPL400-600	488	446	400	300
BPZ-MPL400-800	688	648	400	300
BPZ-MPL400-1000	888	846	400	300
BPZ-MPL400-1200	1088	1046	400	300
BPZ-MPL500-400	288	246	500	400
BPZ-MPL500-425	313	253	500	300
BPZ-MPL500-600	488	446	500	400
BPZ-MPL500-800	688	648	500	400
BPZ-MPL500-1000	888	846	500	400
BPZ-MPL500-1200	1088	1046	500	400
BPZ-MPL650-400	288	246	580	550
BPZ-MPL650-600	488	446	580	550
BPZ-MPL650-800	688	648	580	550
BPZ-MPL650-1000	888	846	580	550
BPZ-MPL650-1200	1088	1046	580	550
BPZ-MPL950-400	288	246	880	850
BPZ-MPL950-600	488	446	880	850
BPZ-MPL950-800	688	648	880	850
BPZ-MPL950-1000	888	846	880	850
BPZ-MPL950-1200	1088	1046	880	850
BPZ-MPL1150-400	288	246	1080	1050
BPZ-MPL1150-600	488	446	1080	1050
BPZ-MPL1150-800	688	648	1080	1050
BPZ-MPL1150-1000	888	846	1080	1050
BPZ-MPL1150-1200	1088	1046	1080	1050
BPZ-MPL1450-400	288	246	1380	1350
BPZ-MPL1450-600	488	446	1380	1350
BPZ-MPL1450-800	688	648	1380	1350
BPZ-MPL1450-1000	888	846	1380	1350
BPZ-MPL1450-1200	1088	1046	1380	1350
BPZ-MPL1650-400	288	246	1580	1550
BPZ-MPL1650-600	488	446	1580	1550
BPZ-MPL1650-800	688	648	1580	1550
BPZ-MPL1650-1000	888	846	1580	1550
BPZ-MPL1650-1200	1088	1046	1580	1550
BPZ-MPL1950-400	288	246	1880	1850
BPZ-MPL1950-600	488	446	1880	1850
BPZ-MPL1950-800	688	648	1880	1850
BPZ-MPL1950-1000	888	846	1880	1850
BPZ-MPL1950-1200	1088	1046	1880	1850



*) Mounting plates are used principally as section height in the respective enclosure height!

Mounting set for maximum depth of board PSN-FP/MPL-..



**) for floor-standing cabinets only!

Type	A1	A2	A3	A4
PSN-FP/MPL-400/300-BL	292	236	320	234.5
PSN-FP/MPL-600/300-BL	492	436	520	434.5
PSN-FP/MPL-800/300-BL	692	636	720	634.5
PSN-FP/MPL-1000/300-BL**) 892	836	920	834.5	
PSN-FP/MPL-1200/300-BL**) 1092	1036	1120	1034.5	

xEnergy Distribution Boards

Mounting kits for Energy Meters and various metering equipment

xEnergy Basic
Sheet 1/2


Width [mm]	Installation back frame or Mounting Side Wall (MSW) incl. meter plate type ZBR single or multiple use of meters depending on the module width Meter tray (height = 400 mm) RAL 7035 grey	DIN-rail set for meter tray to replace 2 or 3 meter sections with standard MCB modules	Mounting side wall (MSW) incl. meter plate type ZBR single or multiple use of meters depending on the module width Meter tray (height = 425 mm) RAL 7035 grey	DIN-rail set for meter tray to replace 2 or 3 meter sections standard MCB modules
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Mounting kits for Energy Meters and various metering equipment

400	PSN-MT-400/400-1ZBR EP-502407	PSN-MT-400/425-1ZBR-MSW EP-502408	-
600	PSN-MT-600/400-2ZBR EP-502409	PSN-MT-600/425-2ZBR-MSW EP-502410	-
800	PSN-MT-800/400-3ZBR EP-502411	PSN-MT-800/425-3ZBR-MSW EP-502412	-
1000	PSN-MT-1000/400-4ZBR EP-502413	PSN-DRS-MT-1000/400-2ZBR EP-502420 (instead of 2x ZBR)	PSN-MT-1000/425-4ZBR-MSW EP-502414
1200	PSN-MT-1200/400-5ZBR EP-502415	PSN-DRS-MT-1200/400-2ZBR EP-502422 (instead of 2x ZBR) PSN-DRS-MT-1200/400-3ZBR EP-502424 (instead of 3x ZBR)	PSN-MT-1200/400-5ZBR EP-502415 PSN-DRS-MT-1200/425-2ZBR-MSW EP-502423 (instead of 2x ZBR) PSN-DRS-MT-1200/425-3ZBR-MSW EP-502425 (instead of 2x ZBR)

xEnergy Basic
Sheet 2/2
xEnergy Distribution Boards

Mounting kits for Energy Meters and various metering equipment



Installation back frame or Mounting Side Wall (MSW) incl. meter plate type ZBR and additional space for MOK box for indirect measurement via CTs Meter tray (height = 600 mm) RAL 7035 grey	Installation back frame or Mounting Side Wall (MSW) without meter plate prepared for mounting the energy meter directly on the board Meter tray (height = 400 mm) RAL 7035 grey	DIN-rail set for meter tray to replace a meter section with standard MCB modules (installation either left/right) RAL 7035 grey	Meter plate (optional) as add-on to all kind of mounting kits 370x210 mm (HxB) one plate for single meter installation RAL 7035 grey
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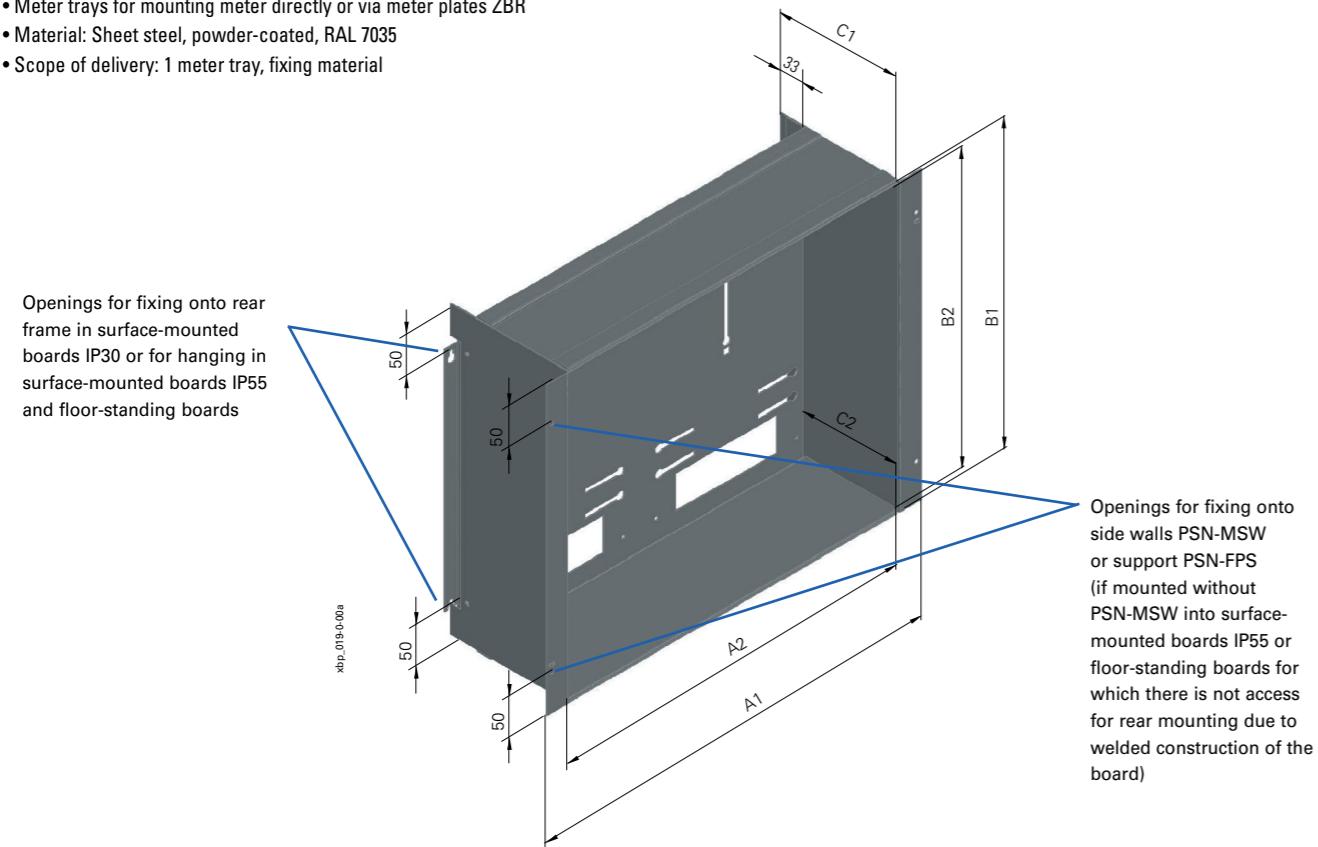
PSN-MT/MOK-400/600-1ZBR EP-502417	PSN-MT-400/400-1 EP-502402
PSN-MT/MOK-600/600-2ZBR EP-502418	PSN-MT-600/400-2 EP-502403
-	PSN-MT-800/400-3 EP-502404
-	PSN-MT-1000/400-4 EP-502405
-	PSN-MT-1200/400-5 EP-502406

PSN-DRS-MT-X/400-1**ZBR**

279261

Meter trays, PSN-MT

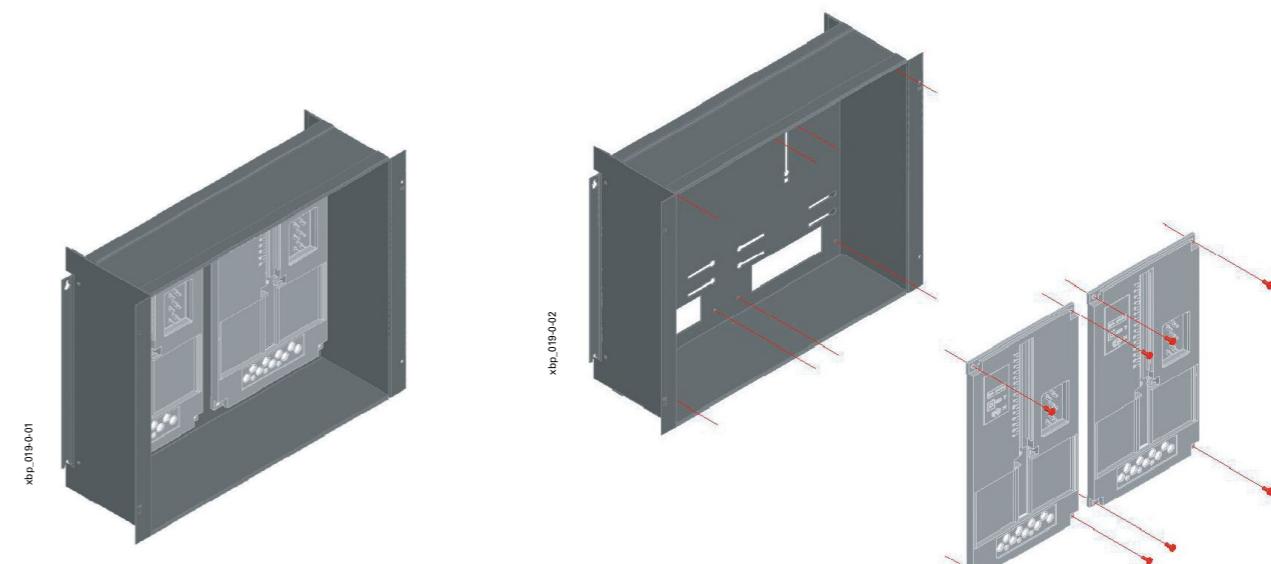
- Meter trays for mounting meter directly or via meter plates ZBR
- Material: Sheet steel, powder-coated, RAL 7035
- Scope of delivery: 1 meter tray, fixing material

**Dimensions (mm)**

Type	Outsider dimensions					
	Width A1	Height B1	Depth C1	A2	B2	C2
PSN-MT-400/400-1	320	400	165	-	390	130
PSN-MT-600/400-2	520	400	165	459	390	130
PSN-MT-800/400-3	720	400	165	659	390	130
PSN-MT-1000/400-4	920	400	165	859	390	130
PSN-MT-1200/400-5	1120	400	165	1059	390	130

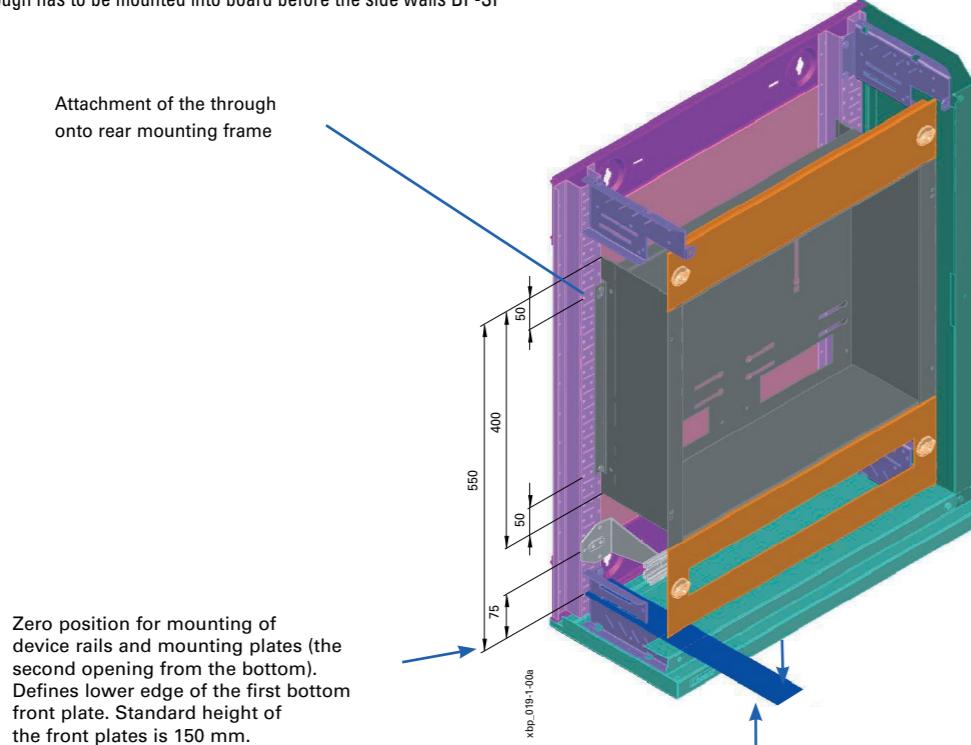
Mounting of meter plates ZBR into trays PSN-MT

- Meter plates ZBR are fixed with screws in the corners (in scope of delivery of the plates)

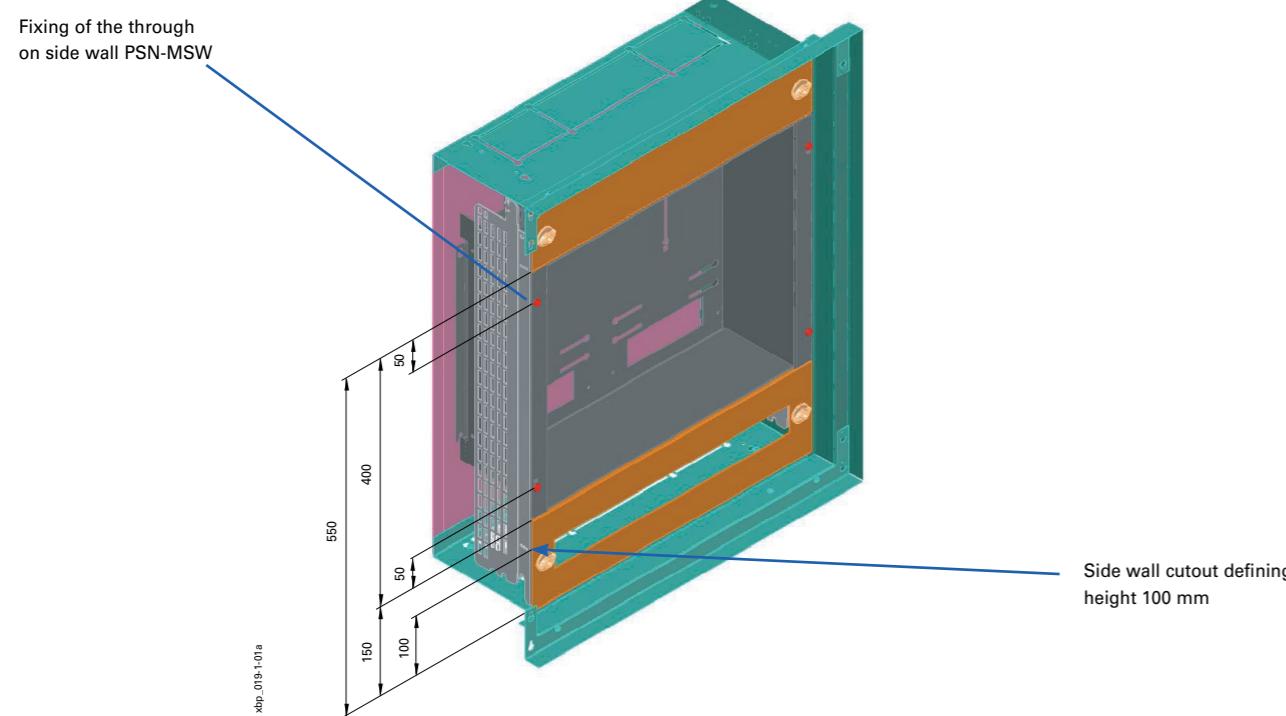


Application of meter through in a surface-mounted board IP30

- Tray is mounted directly onto rear frame
- Sealing screws for securing of the tray can be screwed into support PSN-FPS
- In case of use PSN-MSW, the through is fixed via front part onto PSN-MSW (see application in flush-mounted board)
- Meter through has to be mounted into board before the side walls BP-SP

**Application of meter through in flush-mounted board or surface-mounted board IP54/IP55**

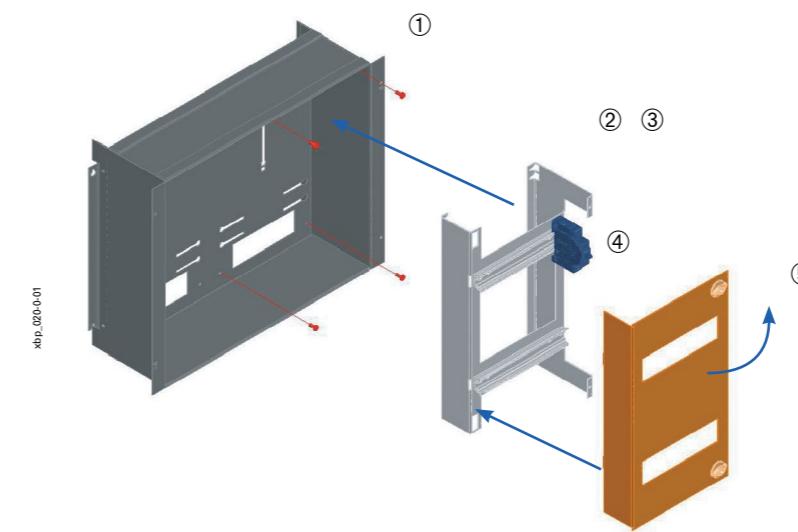
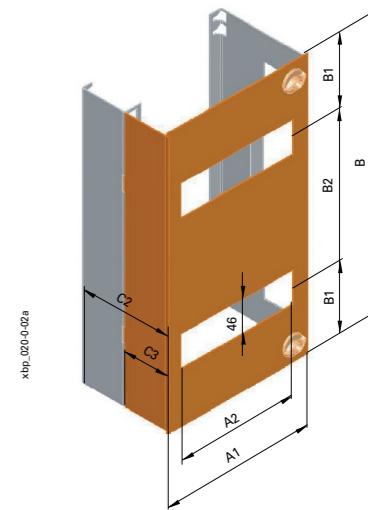
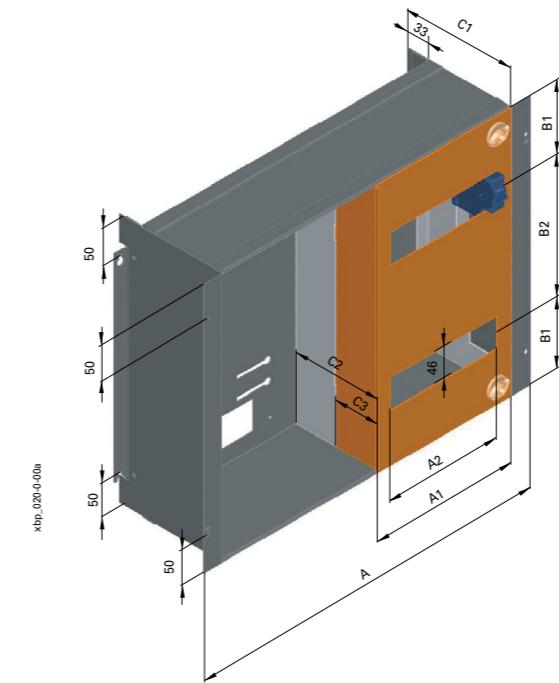
- The tray is mounted onto side walls PSN-MSW or supports PSN-FPS
- If sealing is asked, standard screws are replaced with sealing ones
- Meter throughs can be mounted into flush-mounted boards with wall box of depth of 240 mm only
- Assembling into surface-mounted boards IP55 or floor-standing boards is carried in similar way. It is not possible to use rear mounting due to fixed side walls. For these cases, the through can be hanged onto rear frame. The fixing itself is performed from the front by means of screws screwed into PSN-MSW or PSN-FPS.

**Device rail sets, PSN-DRS-MT**

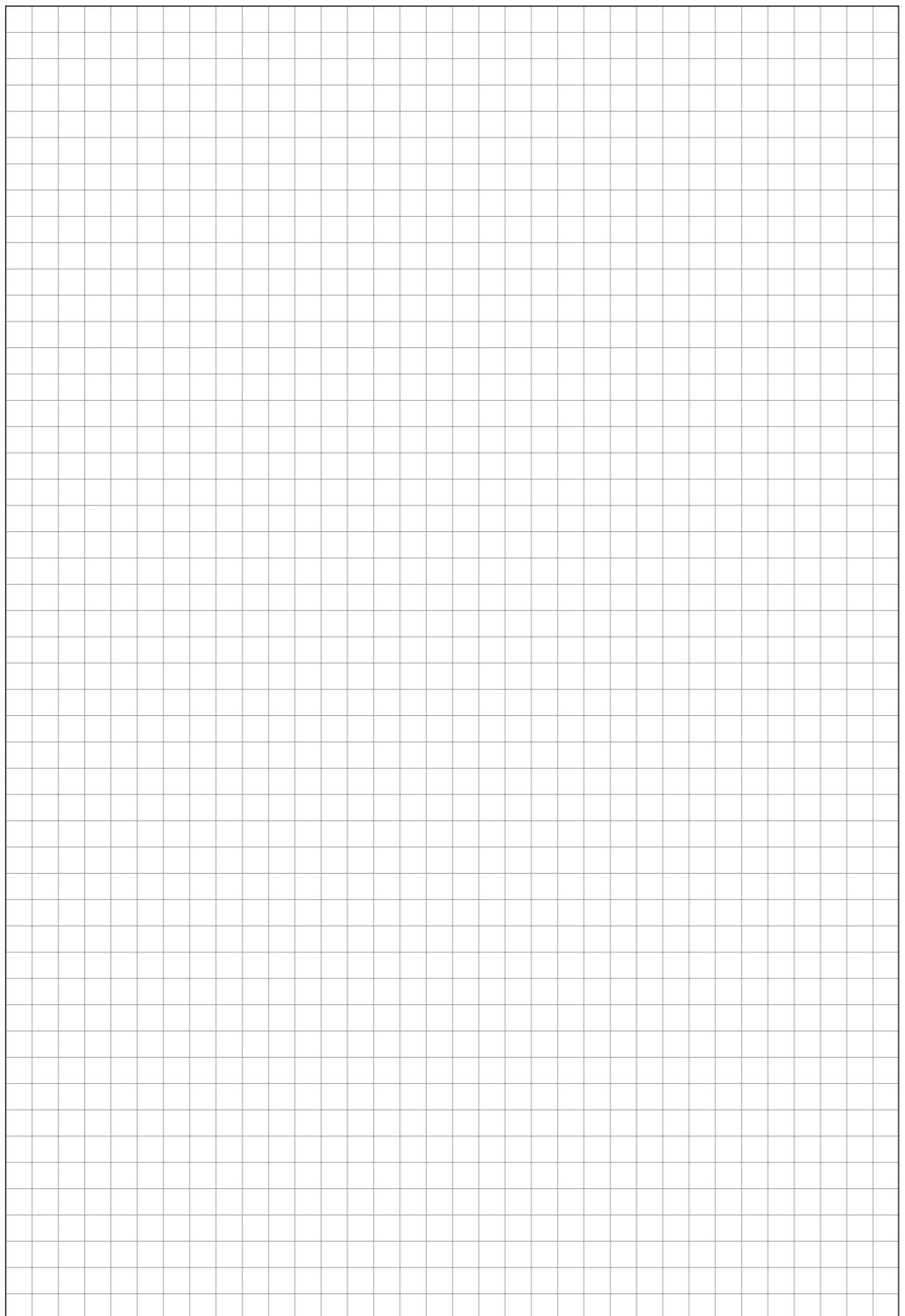
- For using free metering places with device rails
- Mounting is possible into side positions in the through
- Material: Sheet steel, powder-coated, RAL 7035
- Scope of delivery: 1 device rail set, fixing material

Dimensions (mm)

Type	Outside dimensions		
	Width A1	Height B	Depth C2
PSN-DRS-MT-X/400-1	215	400	130
	A2	B1	B2
	170	100	200
		65	

Assembling into meter through**Mounting process:**

1. Pre-screwing of fixing screws into meter through. The screws must not be screwed tight.
2. Placing of the device rail set onto pre-screwed screws.
3. Tightening of the fixing screws.
4. Potential installation or connecting of inside equipment.
5. Mounting of a front panel



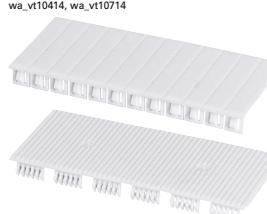
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**Distribution Boards****Distribution Boards**

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xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

Description	Type Designation	Cat. No.	Units per package
Blanking Strip, BS-...-WH			
• For all Eaton distribution boards			
	Blanking Strip, white, fine-ribbed, 12 MU	BS-12MF-WH	178975 10/100
	Blanking Strip, grey, fine-ribbed, 12 MU	BS-12MF-GY	178980 10/100
	Blanking Strip, white, fine-ribbed, 6 MU	BS-6MF-WH	178976 10/100
	Blanking Strip, white, rough-ribbed, 12 MU	BS-12MB-WH	178977 10/100
	Blanking Strip, grey, rough-ribbed, 12 MU	BS-12MB-GY	178979 10/100
	Blanking Strip, white, rough-ribbed, 6 MU	BS-6MB-WH	178978 10/100
Blanking Strips			
	Blanking Strip, white, 2x 10 MU incl. wedges	AP-45	275410 2
	Blanking Strip, grey, 1m long	NBP-1000	275413 1
	Blanking Strip, white, 1m long	NBP-1000-W	101666 1
Front plate locking, BPZ-FPV / PSN-SNAP			
• Spare part			
	Single packaging (1 / 10)		
Spare part	BPZ-FPV	120721	1
ProfiSNAP locking part	PSN-SNAP095/105-SP	EP-502485 *) 10	
Bulk delivery (200 pcs. loose parts in the box)			
ProfiSNAP locking part	BPZ-FPV-E	180441 *) 200	
ProfiSNAP locking part	PSN-SNAP095/105-BD	EP-502486 *) 200	
*) Cat. No. and price per piece Width (mm) / Height (mm) / MU			
Blanking Strip for SASY 60i, AM-195/54			
• Plastic cover for SASY 60i cut outs, RAL 7035			
• To clip on and click onto place			
• Possibility to shorten			
	54 / 195 / 3	AM-195/45	107963 1

xEnergy Basic

xEnergy Basic

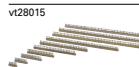
xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

Width (mm)	Type Designation	Cat. No.	Units per package
Sealing Angle, BPZ-PW-...			
• Sealing angle for IP30 Surface-Mounting board			
• Set includes 2 angles and 8 screws			
	BPZ-PW-ZVT	120764	1
Sealing Set, BPZ-SS			
• For sealing of front plates			
• Set consists of 4 pcs. of sealing strips, 4 pcs. of sealing screws M5 and 1 pc. of taptite screw M5			
	BPZ-SS	116652	1
Sealing Screw to seal meter tray, BPZ-S			
• Sealing screw individually			
	BPZ-S	120765	1
Cable Strain Relief C-Profile, BPZ-KAS			
• Mounting on the base frame			
	400	BPZ-KAS-400	106440 1
	600	BPZ-KAS-600	106441 1
	800	BPZ-KAS-800	106442 1
	1000	BPZ-KAS-1000	106443 1
	1200	BPZ-KAS-1200	106444 1
Cable Ø (mm)	Type Designation	Cat. No.	Units per package
Cable Clamps, NWS-K/AC			
• Mounting onto BPZ-KAS			
	12-16	NWS-K/AC16	255197 1
	16-20	NWS-K/AC20	255198 1
	20-24	NWS-K/AC24	255199 1
	24-28	NWS-K/AC28	255200 1
	36-40	NWS-K/AC40	255201 1
	48-52	NWS-K/AC52	255202 1

xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

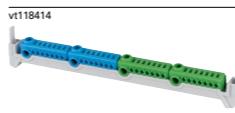
Terminal Points / Description	Type Designation	Cat. No.	Units per package
Terminal Supports, KT			
horizontal	KT-3	275445	1
			
vertical	KT-5	275447	1
			
Terminal Strips, KL			
4	KL-4	219723	1
7	KL-7	219724	1
11	KL-11	219725	1
15	KL-15	219726	1
25	KL-25	219727	1
29	KL-29	275449	1
45	KL-45	275450	1
60	KL-60	275451	1
76	KL-76	102066	1
1 meter	KLM	275452	1
			
Connection terminal for 35 mm ²	KLA	275453	1
			
Width x Height x Depth (mm) / Version	Type Designation	Cat. No.	Units per package
Holder for Terminal Carrier, BPZ-KTH-KSK-F1(-F2)			
<ul style="list-style-type: none"> Holder for combination plug-in terminal KSK using terminal carrier For mounting on terminal support bar BPZ-TSB To be used in combination with terminal carrier empty KSK-KLV or equipped 			
244 x 26 x 33 / single-storied	BPZ-KTH-KSK-F1	190041	1
244 x 40 x 55 / two-storied	BPZ-KTH-KSK-F2	190042	1
			
Terminal Carrier empty, KSK-KLV			
<ul style="list-style-type: none"> For mounting of the combined plug-type terminal KSK 			
up to 4x KSK-N and/or 4x KSK-PE	KSK-KLV	178905	1/10
			

xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

Can be used for	Description	Type Designation	Cat. No.	Units per package
Additional equipment/spare parts for terminal equipment				
Combined plug-type terminal with plug-in terminal points for 0.5-4 mm ² round conductors and screw-type terminal points for 2.5-25 mm ² round conductors				
Terminal carriers KSK-KLV can be expanded by up to 4 individual N blocks for separate RCD protective circuits, or by additional PE blocks				
Terminal carriers are easy to snap on without any tools				
Finger proof IP2X				
Equipped combined plug-type terminal KSK				
1x N potential	N/PE comb. plug-type terminal 2x 2.5 - 25 mm ² each and 14x 0.5 - 4 mm ² each	KSK-2N/2PE-KLV	178898	1
				
1x N potential	N comb. plug-type terminal 4x 2.5 - 25 mm ² and 28x 0.5 - 4 mm ²	KSK-4N-KLV	178899	1
				
2x N potential	N/N comb. plug-type terminal 4x 2.5 - 25 mm ² and 28x 0.5 - 4 mm ²	KSK-3N/1N-KLV	178900	1
				
2x N potential	N/N comb. plug-type terminal 4x 2.5 - 25 mm ² and 28x 0.5-4 mm ²	KSK-2N/2N-KLV	178901	1
				
1x PE potential	PE comb. plug-type terminal 4x 2.5 - 25 mm ² and 28x 0.5 - 4 mm ²	KSK-4PE-KLV	178902	1
				
Individual combined plug-type terminal KSK				
1x N potential	N comb. plug-type terminal 1x 2.5 - 25 mm ² 7x 0.5 - 4 mm ²	KSK-N	178903	1/10
				
1x PE potential	PE comb. plug-type terminal 1x 2.5 - 25 mm ² 7x 0.5 - 4 mm ²	KSK-PE	178904	1/10
				

xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

Set for front plate sealing, BPZ-SS

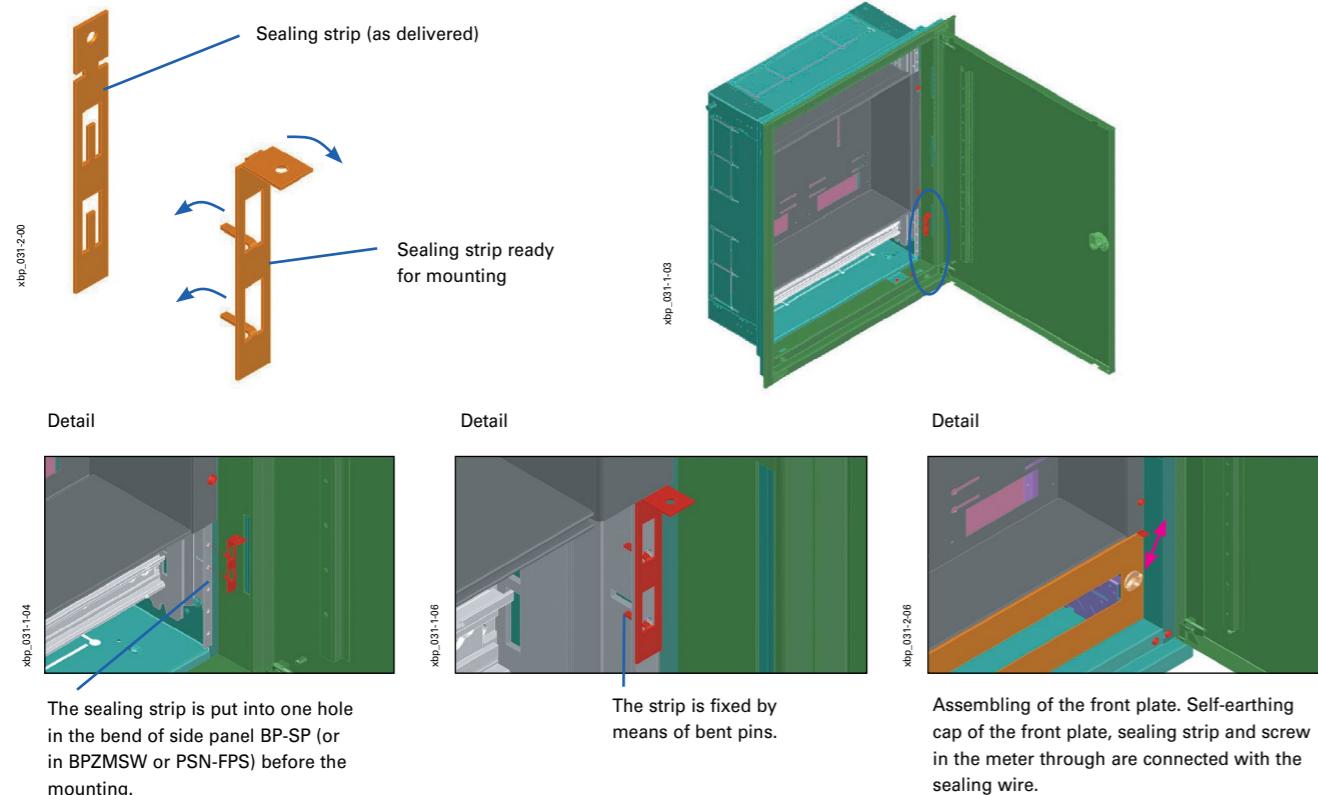
- Set for sealing of distribution boards
- Scope of delivery: 4 pcs of sealing strips, 4 pcs of sealing screws M5, 1 pc of tapping screw M5

Process of sealing of front plates

- Fixed point is given by properly mounted sealing strip
- Sealing screw M5

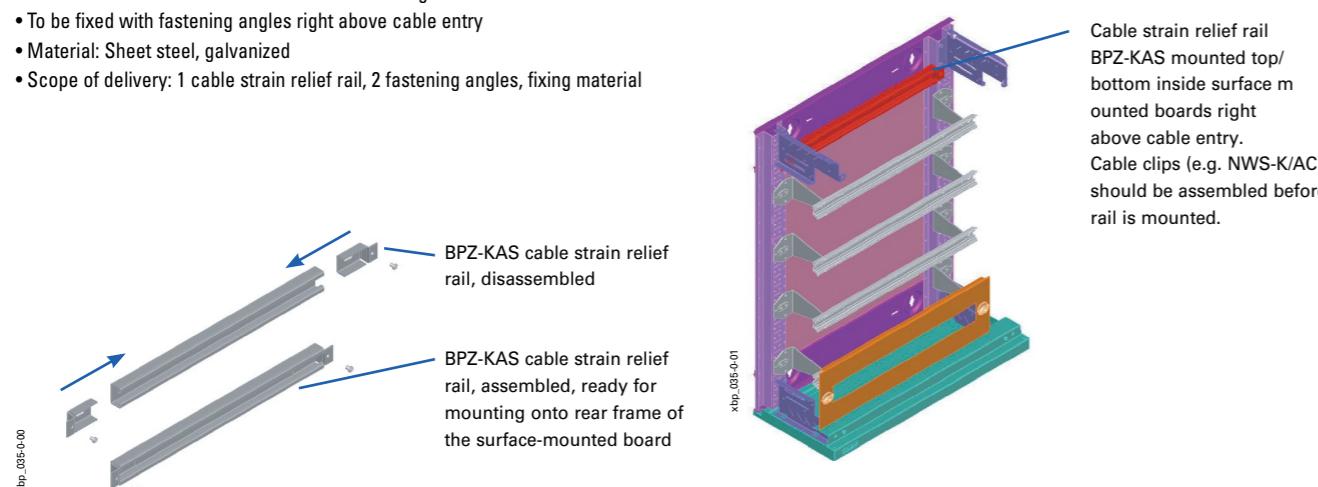
Process of sealing of meter through

- The through can be fixed from the front side into PSN-FPS or PSN-MSW by means of sealing screws M5 (included in the set). The tapping screw from the set is used to make thread.
- The sealing itself can be done with sealing strip of a neighbouring front plate or with pre-moulded lugs in the through.



Cable strain relief rail C-profile, BPZ-KAS

- The rail is used to provide strain relief to the cables right after cable entry
- Suitable for mounting cable clips
- Can be used in surface-mounted or floor-standing boards
- To be fixed with fastening angles right above cable entry
- Material: Sheet steel, galvanized
- Scope of delivery: 1 cable strain relief rail, 2 fastening angles, fixing material



xEnergy Basic

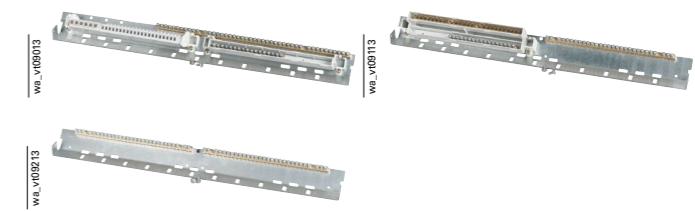
xEnergy Basic

xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

Terminal support bars, BPZ-TSB

- For mounting of terminals (KLV)-KL
- For surface mounted or floor-standing boards
- Mounted directly on the corner tower sets BPZ-CTS (the mounting is recommended before tightening of the fixing screws of the corner tower set)
- Possibility of direct mounting of PE terminal (conductive connection with board construction)
- N terminals are mounted by means of KT holders
- Material: sheet steel, galvanized
- Scope of delivery: 1 terminal support bar, fixing material



Terminal supports, KT

- Scope of delivery: 1 terminal support

KT-3

- For terminal strips KL-7 up to KL-60 mounted onto flat or hollow rails (2 pcs. needed)



KT-5

- For terminal strips up to KL-15, for vertical snap-on mounting onto device rails according to IEC/EN 60715



Terminal strips, (KLV)-KL

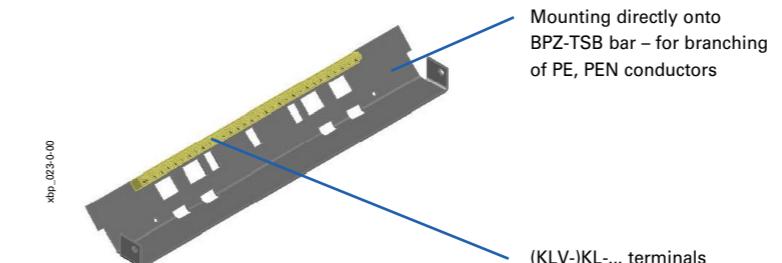
- Maximum current 63 A (125 A if strip is fed into its center via KLA)
- Scope of delivery: 1 terminal strip

Type	Length [mm]	Number of terminals
KL-4	36	2 x 1.5-10 mm ² , 2 x 1.5-16 mm ²
KL-7	57	6 x 1.5-10 mm ² , 1 x 1.5-16 mm ²
KL-11	92	10 x 1.5-10 mm ² , 2 x 1.5-16 mm ²
KL-15	120	14 x 1.5-10 mm ² , 2 x 1.5-16 mm ²
KL-25	190	23 x 1.5-10 mm ² , 2 x 1.5-16 mm ²
KL-29	218	27 x 1.5-10 mm ² , 2 x 1.5-16 mm ²
KL-45	330	43 x 1.5-10 mm ² , 2 x 1.5-16 mm ²
KL-60	442	58 x 1.5-10 mm ² , 2 x 1.5-16 mm ²
KL-76	554	74 x 1.5-10 mm ² , 2 x 1.5-16 mm ²
KLM	995	142 x 1.5-10 mm ²
KLA	Connection terminal up to 35 mm ² (instead of 2 terminal units up to 10 mm ²)	

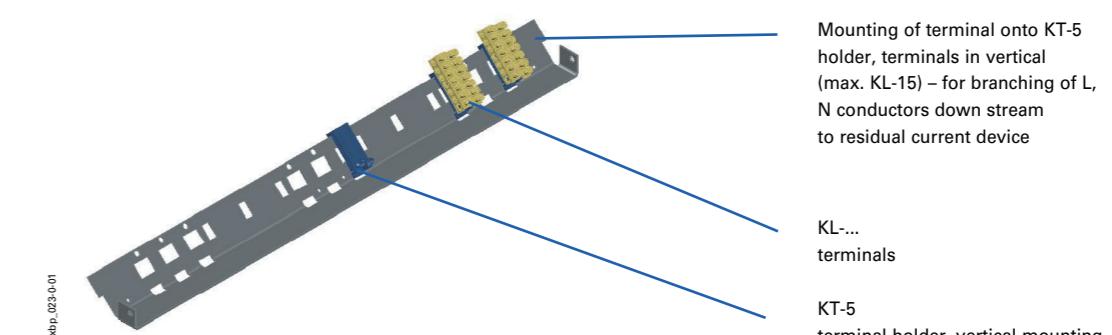


Possible variants of equipping of support bars BPZ-TSB with terminals (KLV)-KL

For board width 400 mm

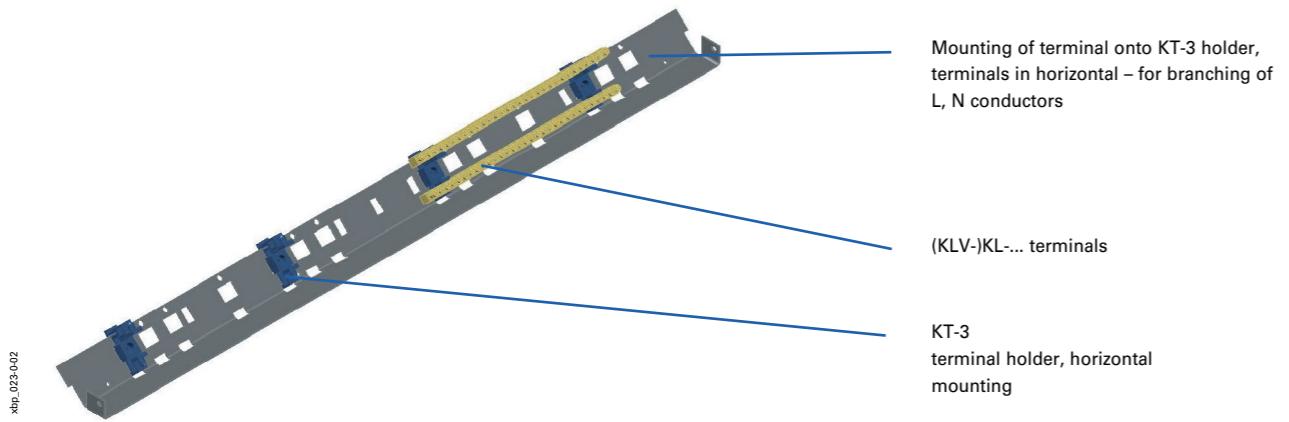


For board width 600 mm

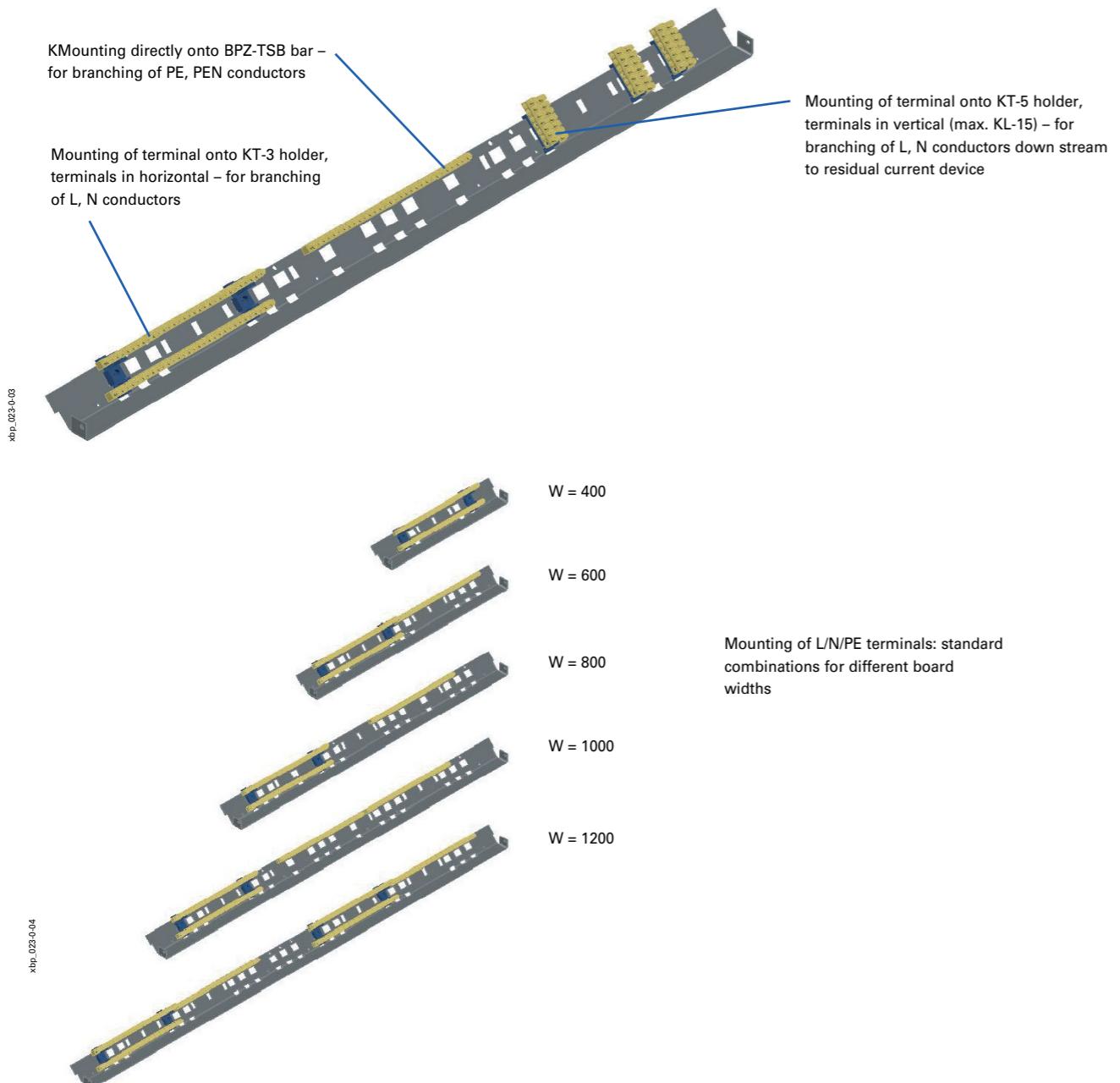


Possible variants of equipping of support bars BPZ-TSB with terminals (KLV)-KL

For board width 800 mm

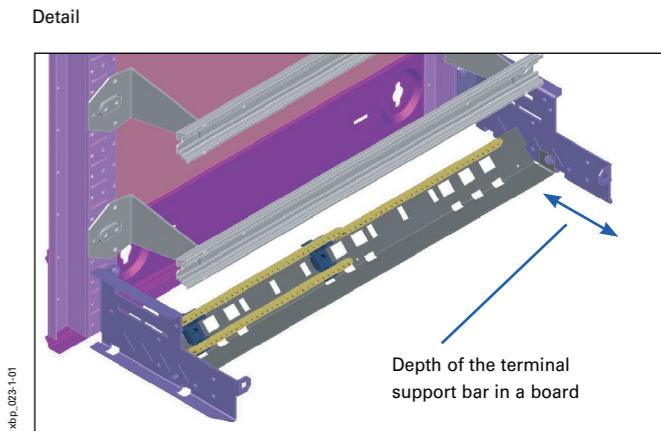
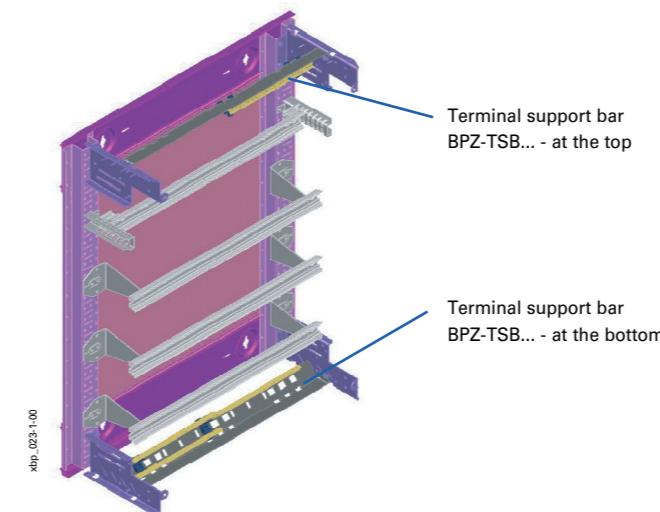


For board width 1000 mm

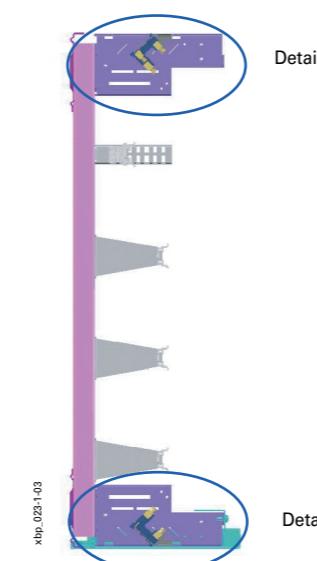


Placing of BPZ-TSB bar inside a board

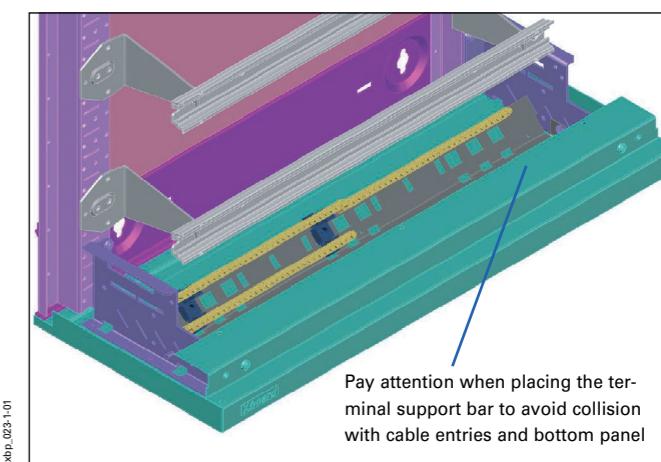
- Suitable only for surface mounted or floor-standing boards



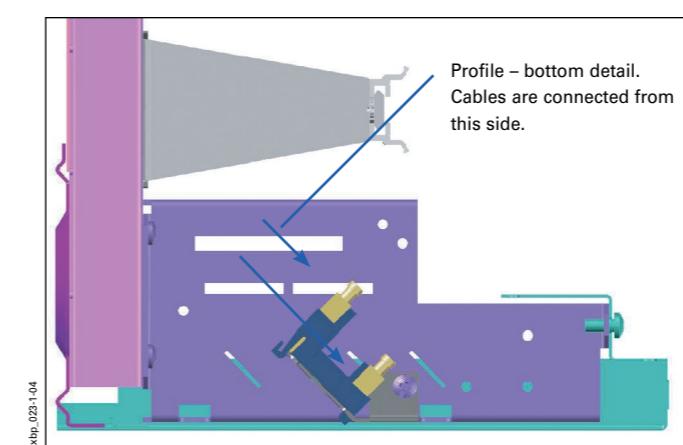
Profile



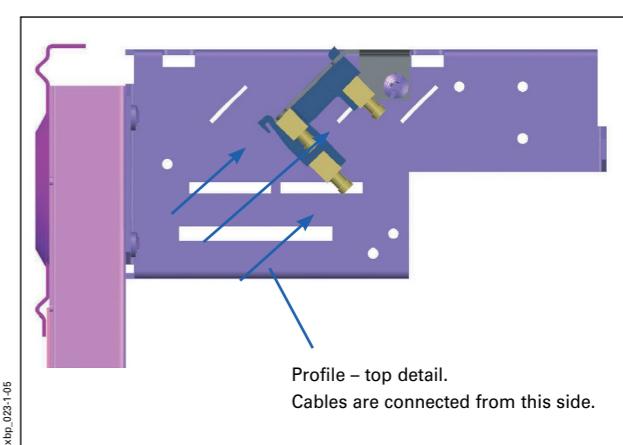
Detail



Detail 1 – Profile



Detail 2 – Profile



xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

Height x Thickness x Length (mm) / Thread / Rated Current	Type Designation	Cat. No.	Units per package
Busbar with Thread, BPZ-BB/T			
15 x 5 x 1000 / M6 / 218 A	BPZ-BB/T-15/5/1000	289861	4
20 x 5 x 1000 / M6 / 274 A	BPZ-BB/T-20/5/1000	289862	4
32 x 5 x 1000 / M6 / 400 A	BPZ-BB/T-32/5/1000	289863	4
15 x 5 x 2000 / M6 / 218 A	BPZ-BB/T-15/5/2000	289864	4
20 x 5 x 2000 / M6 / 274 A	BPZ-BB/T-20/5/2000	289865	4
30 x 5 x 2000 / M6 / 379 A	BPZ-BB/T-30/5/2000	179498	4
30 x 10 x 1000 / M8 / 573 A	BPZ-BB/T-30/10/1000	289867	4
Rated Current (A) / Rail Dimensions (mm)			
4 pole Busbar Support, BPZ-BBS4			
160-250 / 15x5 and 20x5	BPZ-BBS-4/250	289868	10
160-630 / 15x5 up to 30x10	BPZ-BBS-4/630	289869	2
Length x Width x Height (mm)			
Protective Cover for BPZ-BBS-4/250			
• Material: PVC			
800 x 160 x 25	BPZ-PC/BBS250/800-160-25	177326	1
Width (mm)			
Mounting elements for 4 pole Busbar Support 250 A			
• Pair			
• Horizontal mounting in the 200 mm compartment, vertical busbar			
200	BPZ-BR/BBS250/V-200	173652	1

xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

Width (mm)	Type Designation	Cat. No.	Units per package
Mounting elements for 4 pole Busbar Support 250/630 A			
• Pair			
• Horizontal mounting in the 400 mm compartment, vertical busbar			
• Also for use as cable strain relief rail			
400	BPZ-BR/BBS630/V-400	177325	1
Width (mm) / MU	Description	Type Designation	Cat. No.
Mounting elements for 4 pole Busbar Support 630 A, BPZ-BR/BBS630/V			
• Pair			
• Horizontal mounting in the 400 mm compartment, vertical busbar			
400	BPZ-BR/BBS630/V	104331	1
Width (mm)	Type Designation	Cat. No.	Units per package
Mounting elements for DIN-Rail or DIN-Rail Set, BPZ-BR/DINR/V-200			
• Pair			
• Horizontal mounting in the 200 mm compartment, vertical DIN-Rail			
• Mounting the DIN-Rail directly or adjustable with towers			
200	BPZ-BR/DINR/V-200	173651	1
Aluminum Rail for vertical interior fittings, BPZ-MAH			
• Enable fixing of busbar support and other devices			
400	BPZ-MAH-400	154953	10
600	BPZ-MAH-600	154954	10
800	BPZ-MAH-800	154955	10
1000	BPZ-MAH-1000	154956	10
1200	BPZ-MAH-1200	154957	10

xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

Width (mm) / MU	Description	Type Designation	Cat. No.	Units per package										
DIN-Rail Set, BPZ-DINR, Towers - adjustable														
400 / 13		BPZ-DINR13-400-T	286751	1/10										
600 / 24		BPZ-DINR24-600-T	286753	1/10										
800 / 35		BPZ-DINR35-800-T	286755	1/10										
1000 / 46		BPZ-DINR46-1000-T	293590	1/10										
1200 / 57		BPZ-DINR57-1200-T	293592	1/10										
DIN-Rail Set, BPZ-DINR, Towers - fixed														
<ul style="list-style-type: none"> • Protruding DIN-Rail cutted on both sides • For better mounting of vertical cable ducts 														
400 / 13		BPZ-DINR13S-400-B	193981	1/10										
600 / 24		BPZ-DINR24S-600-B	174384	1/10										
800 / 35		BPZ-DINR35S-800-B	174385	1/10										
1000 / 46		BPZ-DINR46S-1000-B	193982	1/10										
1200 / 57		BPZ-DINR57S-1200-B	193983	1/10										
Towers, BPZ-T														
<table border="1"> <tr> <td>fixed</td> <td>BPZ-TF/2</td> <td>116651</td> <td>1 pair</td> <td></td> </tr> <tr> <td>adjustable</td> <td>BPZ-TA/2</td> <td>116650</td> <td>1 pair</td> <td></td> </tr> </table>					fixed	BPZ-TF/2	116651	1 pair		adjustable	BPZ-TA/2	116650	1 pair	
fixed	BPZ-TF/2	116651	1 pair											
adjustable	BPZ-TA/2	116650	1 pair											
DIN-Rail Set, BPZ-DINR, Towers - fixed, variant for cable guiding														
<ul style="list-style-type: none"> • DIN-Rail 35 x 15 mm made of sheet metal incl. square hole pattern 9.5 x 9.5 mm • For fixing of cable routing shackles type EPCL095-75X35 														
400 / 13		BPZ-DINR13P-400-B	302820	1/10										
600 / 24		BPZ-DINR24P-600-B	302823	1/10										
800 / 35		BPZ-DINR35P-800-B	302824	1/10										
1000 / 46		BPZ-DINR46P-1000-B	302825	1/10										
1200 / 57		BPZ-DINR57P-1200-B	302826	1/10										
Fastening Elements, BEL														
<ul style="list-style-type: none"> • BEL12: insulated, pre-mounted (grout screws) • BEL01: for conductive connection, pre-mounted (grout screws) • BEL12A: insulated, delivery in component parts 														
Pairs	white	BEL12	275199	1 pair										
Pairs	green	BEL01	275200	1 pair										
Pairs	white	BEL12A	275201	1 pair										
200 pcs. loose parts in the box	white	BEL12-E	237837 *)	200 pcs.										
200 pcs. loose parts in the box	green	BEL01-E	237836 *)	200 pcs.										
*) Cat. No. and price per piece														

xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

ProfiSNAP installation system - general accessories

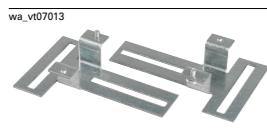
Width (mm) / MU	Description	Type Designation	Cat. No.	Units per package
C-Profil Rail for Cable Duct Angles, BPZ-CP				
400		BPZ-CP-400	116918	10
600		BPZ-CP-600	116919	10
800		BPZ-CP-800	116920	10
1000		BPZ-CP-1000	116921	10
1200		BPZ-CP-1200	116922	10
Height (mm) / max depth (mm)	Type Designation	Cat. No.	Units per package	
Depth Extension Bracket for MSW-mounting, BPZ-TIW				
<ul style="list-style-type: none"> • For extension of the MSW in the depth • TIW-1 used for all standard boards, TIW-2 exclusively for distribution boards with a depth of 400 mm (BP-F, BPM-F) • The depth of the angle can be adjusted every 12 mm in the grid 				
75 / 72		BPZ-TIW-1	EP-501199	1 Pair
75 / 172		BPZ-TIW-2	EP-501393	1 Pair
Support Plate, STL / Adapter, SAA				
<ul style="list-style-type: none"> • For mounting LTS-00 type HRC load breakers in series onto mounting support rails of different heights • For mounting of PE/PEN busbars and nonstandard components onto fastening elements BEL 				
Support plate (set of 2 pieces)	STL-1	275427	1	
Support plate (set of 2 pieces)	STL-2	275428	1	
Adapter (set of 4 pieces)	SAA	275429	1	
Width (mm) / MU Width (mm) / MU / for width of cable duct (mm)	Type Designation	Cat. No.	Units per package	
DIN-Rail, BPZ-DINR				
400 / 13		BPZ-DINR13-400	293594	10
600 / 24		BPZ-DINR24-600	293595	10
800 / 35		BPZ-DINR35-800	293596	10
1000 / 46		BPZ-DINR46-1000	293597	10
1200 / 57		BPZ-DINR57-1200	293598	10
DIN-Rail, BPZ-TSK				
<ul style="list-style-type: none"> • DIN-Rail cutted on one side • Enable fixing of vertical cable ducts on one side 				
600 / 23 / 40		BPZ-TSK-600/40	151166	10
600 / 22 / 60		BPZ-TSK-600/60	151167	10
600 / 21 / 80		BPZ-TSK-600/80	151168	10
800 / 34 / 40		BPZ-TSK-800/40	151169	10
800 / 33 / 60		BPZ-TSK-800/60	151170	10
800 / 32 / 80		BPZ-TSK-800/80	151171	10
1000 / 45 / 40		BPZ-TSK-1000/40	151172	10
1000 / 44 / 60		BPZ-TSK-1000/60	151173	10
1000 / 43 / 80		BPZ-TSK-1000/80	151174	10
1200 / 56 / 40		BPZ-TSK-1200/40	151175	10
1200 / 55 / 60		BPZ-TSK-1200/60	151176	10
1200 / 54 / 80		BPZ-TSK-1200/80	151177	10

xEnergy Distribution Boards

ProfiSNAP installation system - general accessories



Height (mm)	Type Designation	Cat. No.	Units per package
Cable Duct Angles, KKW			
<ul style="list-style-type: none"> For MSW mounting Enable fixing of vertical cable ducts KKW-40 for 60 mm cable ducts KKW-DIN for 80 mm cable ducts DIN-Rail has to be shortened 			
	KKW-40	275242	10 / 200
	KKW-DIN	275243	10 / 200



8	BPZ-CDB	102471	1
23	BPZ-CDB23	105216	1
58	BPZ-CDB58	109169	1



8	BPZ-CDB8/CP	116915	1
23	BPZ-CDB23/CP	116916	1
58	BPZ-CDB58/CP	116917	1

8	BPZ-CDB08/CP	174386	1
49	BPZ-CDB49/CP	174387	1



Width (mm)	Description	Type Designation	Cat. No.	Units per package
Accessories for Cable Duct Fixing, BPZ-ZP				
	For direct mounting of the cable duct at the C-profile rail (ZP2) or to the mounting elements BPZ-CDB... (ZP1)			
	100 pcs. in bag	BPZ-ZP1	184980	1
	50 pcs. in bag	BPZ-ZP2	184981	1

xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

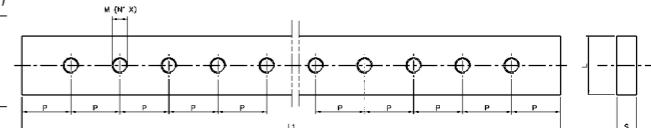
ProfiSNAP installation system - general accessories

Busbar with Thread, BPZ-BB/T

- Scope of delivery: 4 Busbars (art. no. is created as 1 piece)

Dimensions (mm)

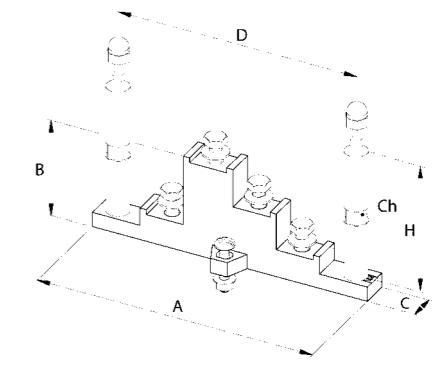
Type	L	S	P	L1	ØM	N°	Rated current (A) (Busbar temperature 65°C)
BPZ-BB/T-15/5/1000	15	5	25	1000	M6	39x	218
BPZ-BB/T-20/5/1000	20	5	25	1000	M6	39x	274
BPZ-BB/T-32/5/1000	32	5	25	1000	M6	39x	400
BPZ-BB/T-15/5/2000	15	5	25	2000	M6	79x	218
BPZ-BB/T-20/5/2000	20	5	25	2000	M6	79x	274
BPZ-BB/T-30/5/2000	30	5	25	2000	M6	79x	379
BPZ-BB/T-30/10/1000	30	10	25	1000	M8	39x	573



4-pole Busbar Support, BPZ-BBS-4/250

- Rated current 150-250 A
- Mounting position: vertical, horizontal
- For busbars featuring threads M6, 15 x 5 and 20 x 5 mm
- Material: PA66 reinforced with 30% glass fiber
- Flame resistance: self-extinguishing acc. to UL94/V-0
- Halogen free: Yes
- Compact construction
- Holes for fixing with M6 screws
- Easy to mount onto a mounting plate or special prepared brackets
- Additional fixing of protective cover BPZ-PC/BBS250/800-160-25
- Continuous operating temperature: +130°C
- Max. distance between the busbar supports in mm in case of one busbar per phase
- Scope of delivery: 1 busbar holder, 2 spacers, fixing material

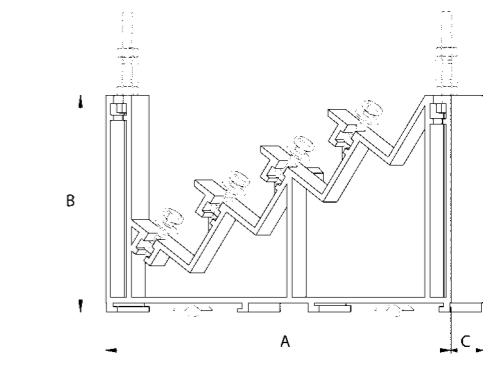
Bar cross section	Icc pk (kA)	11	14	24	32
	Icc rms (kA)	7	8	12	15
	In (A)	Distance (mm)			
15x5	150	561	455	258	150
20x5	250	647	526	266	150



4-pole Busbar Support, BPZ-BBS-4/630

- Rated current 150-630 A
- Mounting position: vertical, horizontal
- For busbars featuring threads M6, 15 x 5, 20 x 5, 32 x 5, 30 x 5 and 30 x 10 mm
- Material: PA66 reinforced with 35 % glass fiber
- Flame resistance: self-extinguishing acc. to UL94/V-0
- Halogen free: Yes
- Compact construction
- Easy to mount onto a DIN-rail, onto a mounting plate or special prepared brackets
- Protective cover (not part of delivery) can be adjusted in height thanks to incl. plastic spacers
- Continuous operating temperature: +125°C
- Max. distance between the busbar supports in mm in case of one busbar per phase
- Scope of delivery: 1 busbar holder, fixing material

Bar cross section	Icc pk (kA)	11	14	24	32	48
	Icc rms (kA)	7	8	12	15	23
	In (A)	Distance (mm)				
15x5	150	682	554	314	250	100
20x5	250	788	640	363	261	100
32x5	400	980	980	410	261	100
20x10	500	980	980	410	261	100
30x10	630	980	980	410	261	100



Mounting elements for 4 pole Busbar Support 250 A, BPZ-BR/BBS250/V-200

- For horizontal mounting of the 4-pole Busbar Support BPZ-BBS-4/250 onto mounting pillars of a 200 mm wide compartment.
- Busbars are in vertical direction.
- Material: Sheet steel (2 mm), zinc-coated
- Scope of delivery: 2 Mounting elements, fixing material

Mounting elements for 4-pole Busbar Support 630 A, BPZ-BR/BBS630/V

- For horizontal mounting of the 4-pole Busbar Support BPZ-BBS-4/630/V onto mounting pillars of a 400 mm wide enclosure (or a 400 mm wide compartment).
- Busbars are in vertical direction.
- Material: Sheet steel (2 mm), zinc-coated
- Scope of delivery: 2 Mounting elements, fixing material

Mounting elements for DIN-Rail respectively DIN-Rail Kit, BPZ-BR/DINR/V-200

- For vertical mounting of the DIN-Rail onto mounting pillars of a 200 mm wide compartment
- Material: Sheet steel (1.5 mm), zinc-coated
- Scope of delivery: 2 Mounting elements, fixing material

**Device rail Set, BPZ-DINR**

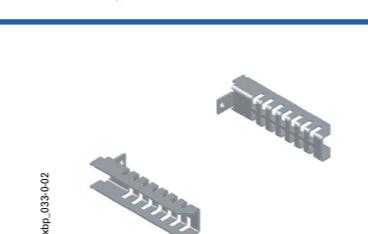
- For mounting of installation devices
- Number of modular units acc.to front plate cut-out, independent of type of fixing
- Fixed towers preferred for vertical routing via cable ducts

**With adjustable mounting depth BPZ-DINR...T**

- Scope of delivery: device rail, 2 adjustable towers, 2 BEL01 fastening elements, fixing material

**With fixed mounting depth BPZ-DINR...B**

- Scope of delivery: device rail, 2 fixed towers, fixing material
- Conductive connection is type tested

**Towers for device rail, BPZ-T/2**

- For mounting of device rails (without PSN-MSW)

**With adjustable depth BPZ-TA/2**

- Enables adjustable mounting depth of the DIN-Rail in steps of 12 mm
- Scope of delivery: 2 adjustable towers, fixing material

**With fixed depth BPZ-TF/2**

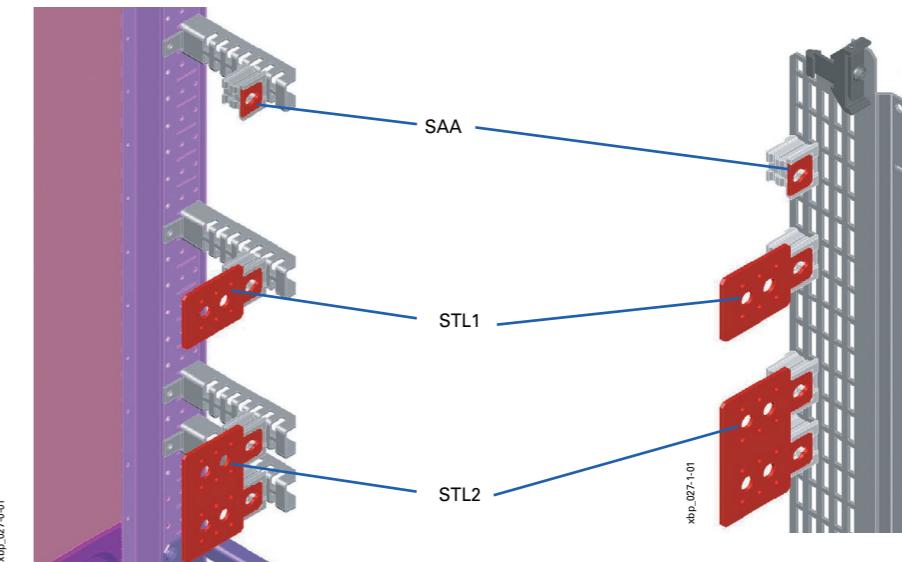
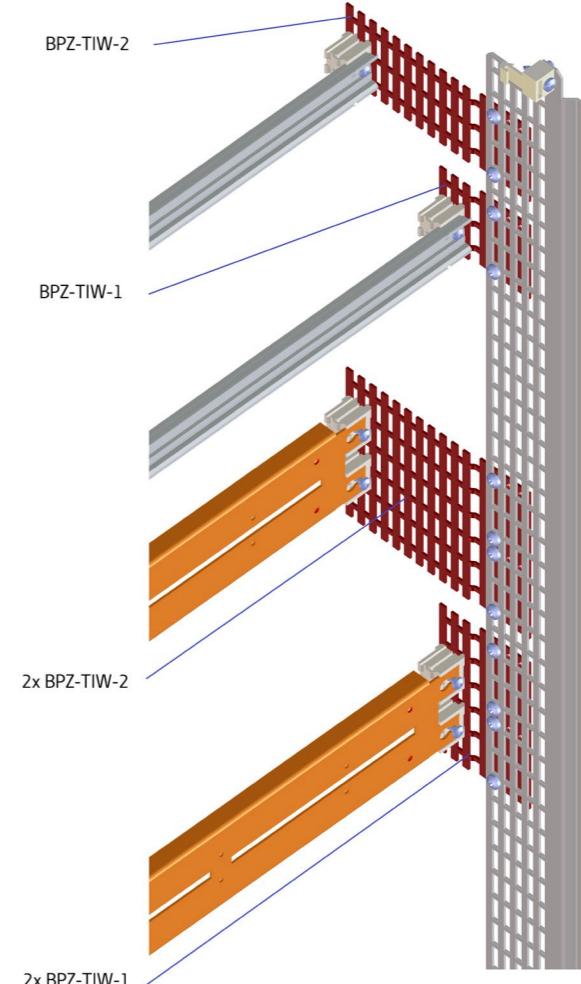
- Scope of delivery: 2 fixed towers, fixing material
- Conductive connection is type tested

Fastening elements, BEL

- For mounting device rails onto adjustable towers BPZ-TA or onto mounting side walls PSN-MSW
- White BEL12 - ungrounded fastening element
- Green BEL01 - grounded fastening element
- Unmounted BEL12A - ungrounded and unmounted fastening element
- Scope of delivery: 2 fastening elements

**Adaptors, SAA, STL**

- Adaptors SAA are intended to align the dip in BEL. With the adaptors, it is possible to mount panels and other equipment which is not designed for BEL onto these fastening elements.
- Holders STL can be used in the same way as SAA. These holders are enlarged by mounting extension.

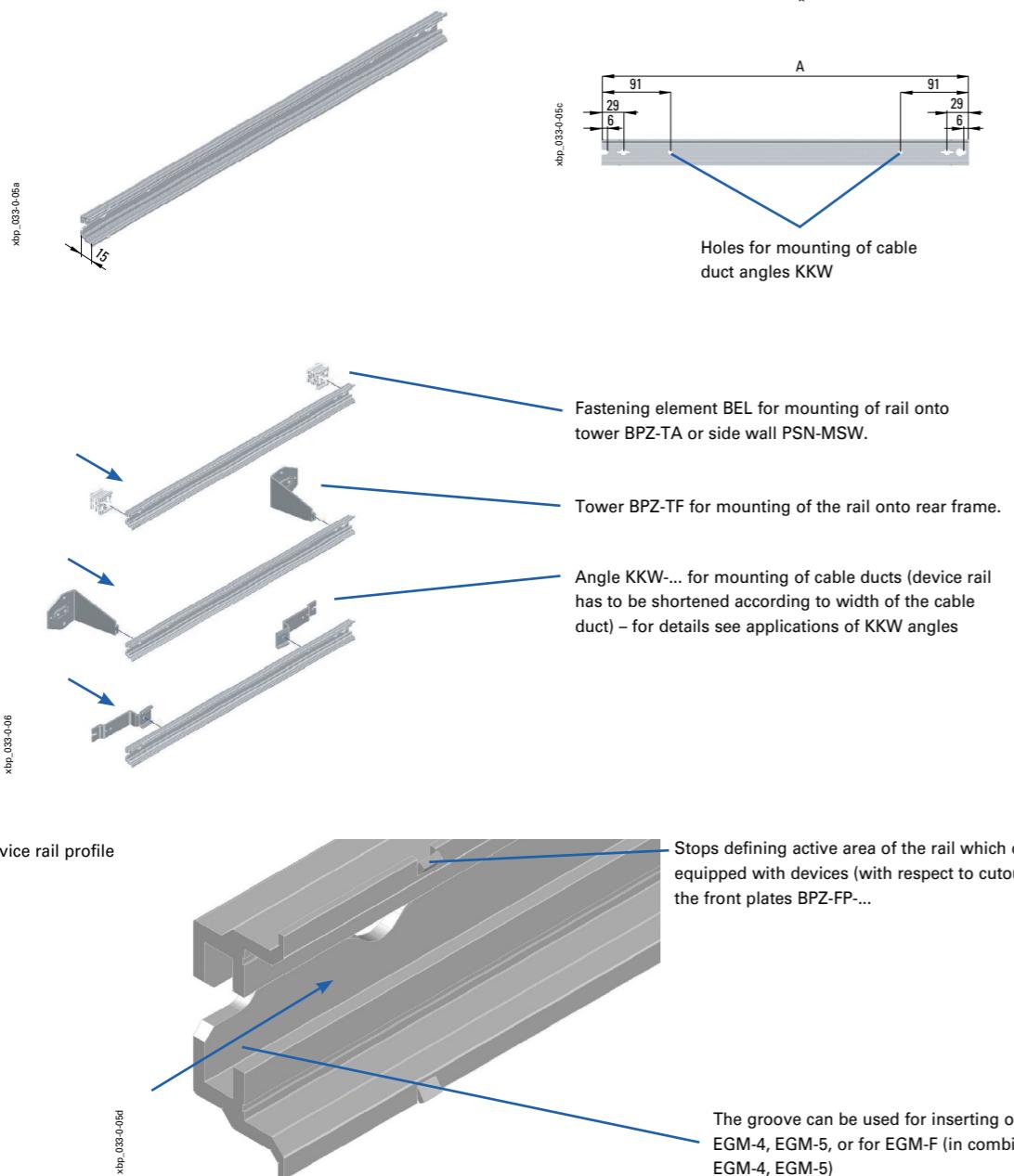
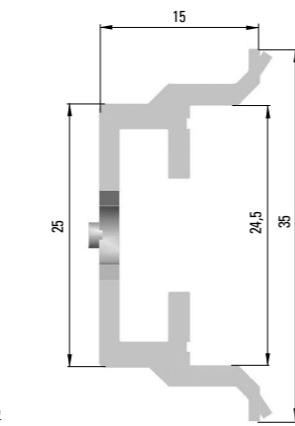
**Depth extension bracket for MSW-mounting, BPZ-TIW**

Device rails, BPZ-DINR

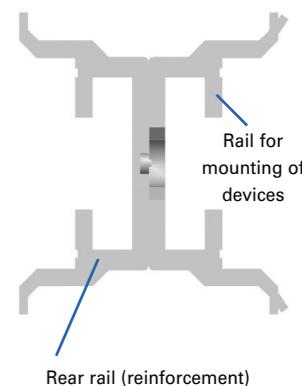
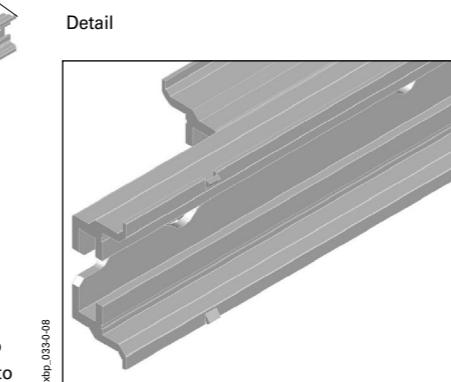
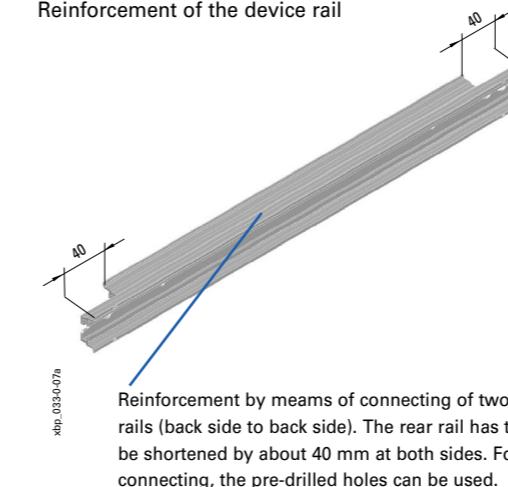
- For mounting of the installation devices
- Material: Aluminium
- Scope of delivery: 1 device rail

Dimensions (mm)

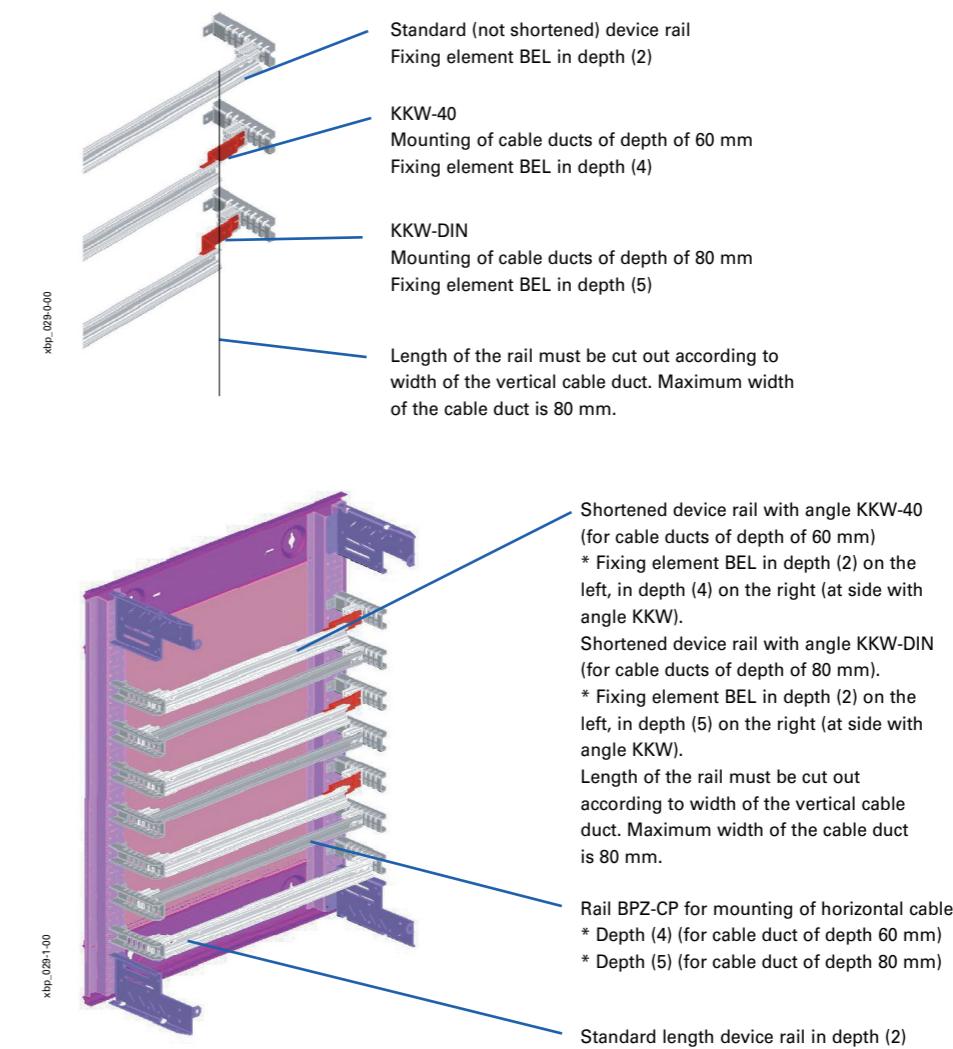
Type	Outside dimensions		
	Height	Width	Depth A
BPZ-DINR13-400	35	288	15
BPZ-DINR24-600	35	488	15
BPZ-DINR35-800	35	688	15
BPZ-DINR46-1000	35	888	15
BPZ-DINR57-1200	35	1088	15

**Device rails, BPZ-DINR**

Reinforcement of the device rail

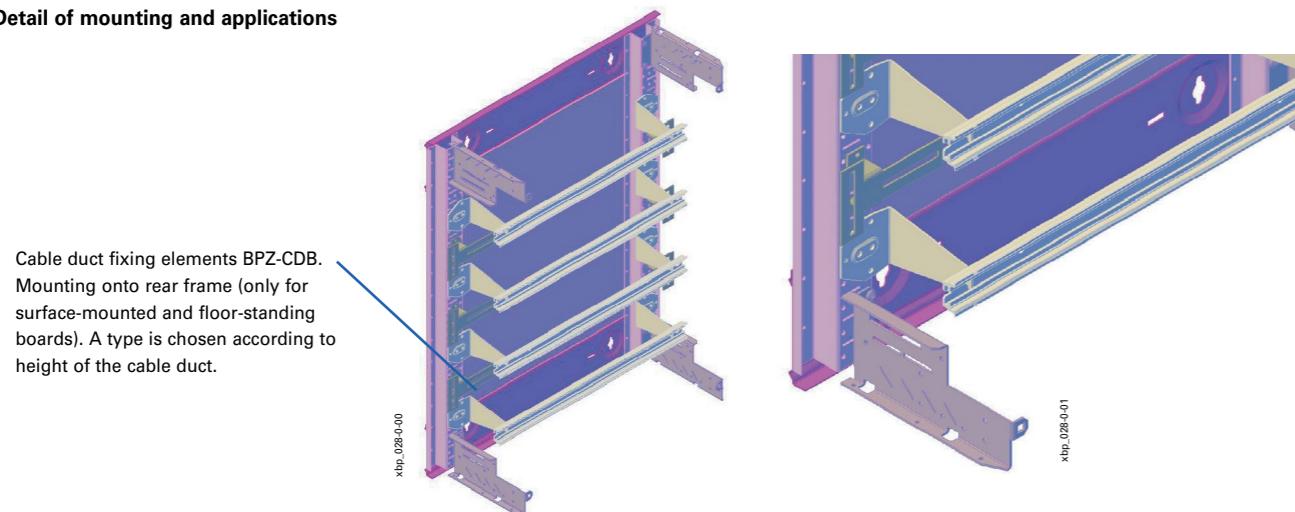
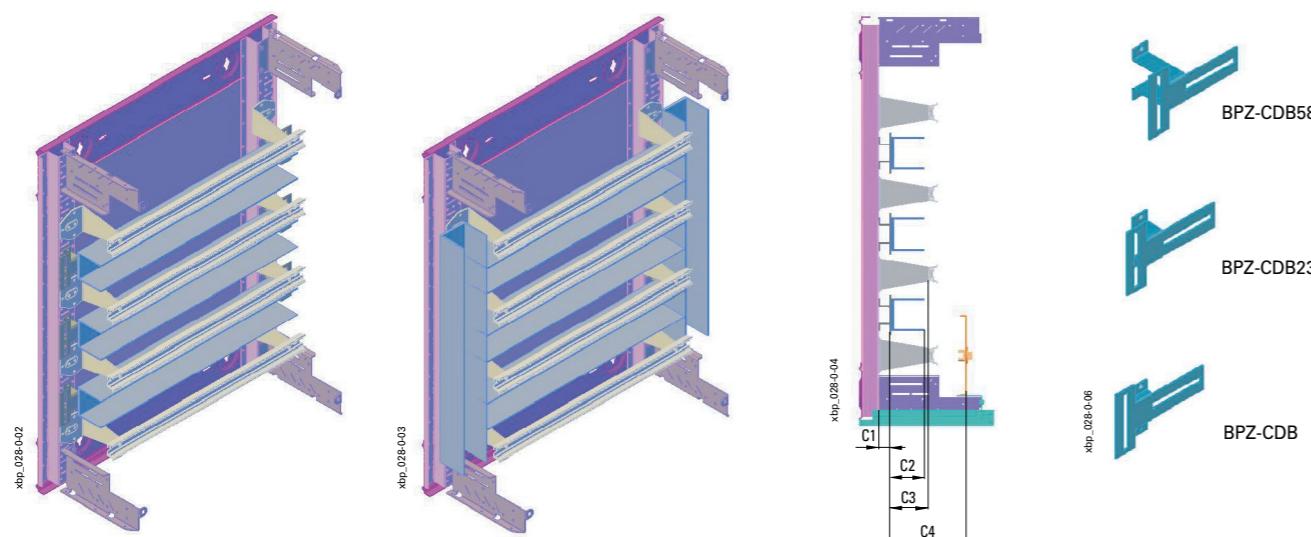
**Cable duct angles, KKW**

- For mounting cable ducts featuring a depth of 60 mm (KKW-40) or 80 mm (KKW-DIN)
- Material: Sheet steel, zinc-coated
- Scope of delivery: 1 cable duct angle

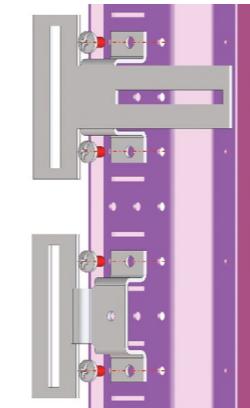


Fixing elements for cable duct, BPZ-CDB

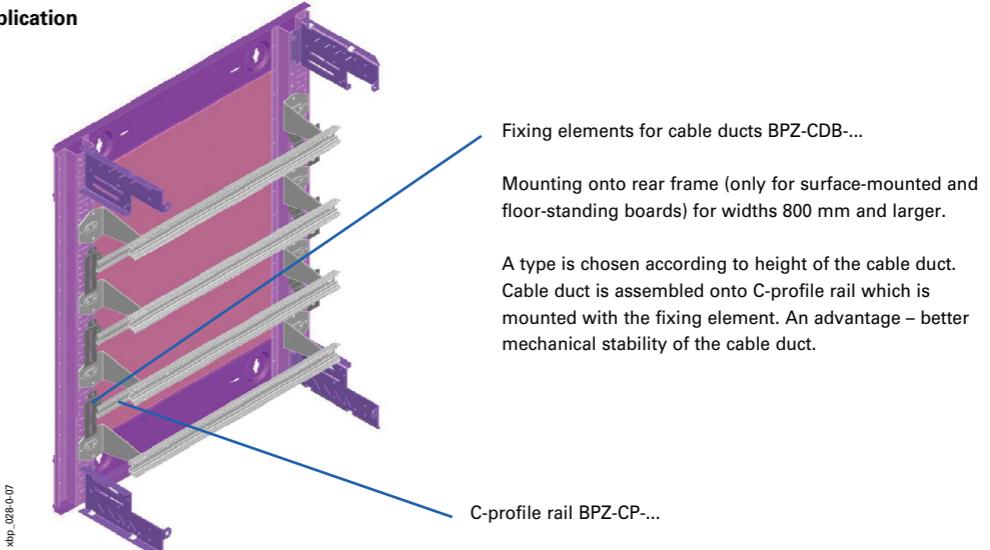
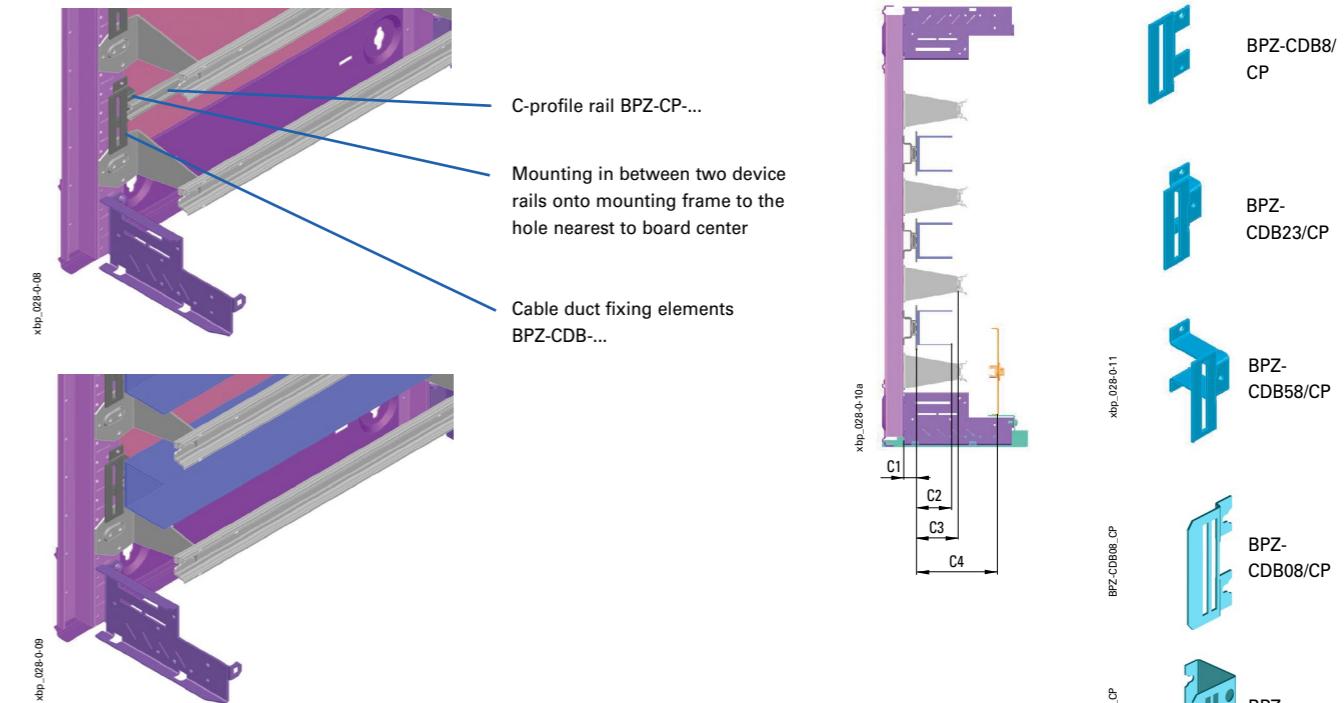
- For mounting cable ducts featuring a depth of 80 mm (BPZ-CDB), 60 mm (BPZ-CDB23) or 40 mm (BPZ-CDB58) for surface-mounted or floor-standing distribution boards
- For board width 400, 600 mm
- For larger widths fixing elements BPZ-CDB../CP are used
- Material: Sheet steel, zinc-coated
- Scope of delivery: 2 fixing elements, fixing material

Detail of mounting and applications**Fixing elements BPZ-CDB equipped with cable ducts (for board of width of 400, 600 mm)****Dimensions (mm)**

Type	Fixing element height	Recommended height of the cable duct	Maximum height of the vertical cable duct	Maximum height of the horizontal cable duct
	C1	C2	C3	C4
BPZ-CDB	8	80	85	150
BPZ-CDB23	23	60	70	135
BPZ-CDB58	58	40	40	100

Detail of mounting**Fixing elements for cable duct, BPZ-CDB../CP**

- For mounting cable ducts featuring a depth of 80 mm (BPZ-CDB8/CP respectively BPZ-CDB08/CP), 60 mm (BPZ-CDB23/CP) or 40 mm (BPZ-CDB49/CP respectively BPZ-CDB58/CP) for surface-mounted or floor-standing distribution boards
- For board with 600 to 1200 mm
- Fixing elements are supplemented with rails BPZ-CP
- Material: Sheet steel, zinc-coated
- Scope of delivery: 2 fixing elements, fixing material

Detail of mounting and application**Fixing elements BPZ-CDB equipped with cable ducts (for board of width of 800 to 1200 mm)****Dimensions (mm)**

Type	Fixing element height	Recommended height of the cable duct	Maximum height of the vertical cable duct	Maximum height of the horizontal cable duct
	C1	C2	C3	C4
BPZ-CDB8/CP	7	80	85	150
BPZ-CDB08/CP	8	80	85	150
BPZ-CDB23/CP	24	60	70	135
BPZ-CDB49/CP	49	40	45	105
BPZ-CDB58/CP	54	40	40	100

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**Distribution Boards****Distribution Boards**

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System Overview**Power Distribution Blocks (distributor assembly terminal blocks)**

- Prepared for reliable and fast connections inside the switchboard
- Installation on modular rail or mounting plate
- Screw-terminal connections

1-phase types**3-/4-phase types****4-phase busbar system (easy to connect)**

- Connection to the vertical busbar from the back, outgoing distribution in the front
- Installation with special brackets or directly on mounting plate
- For 600 / 800 mm wide compartments
- Snap-in connections

**Modular busbar system SASY 60i**

- 1- up to 5-phase systems realizable
- Prepared mounting kits for horizontal installation
- Vertical integration in separate compartment possible



xEnergy Distribution Boards

General accessories xEnergy Basic



4 phase distribution busbar, BPZ-KB-12/250, BPZ-KB-24/250

- Prepared for a quick and easy wiring by means of plug-in contacts
- 63 A max. rated current per outlet

6 / 12 / 233
12 / 24 / 422

Outputs L1/L2/L3 / N / Width (mm)

Type Designation

Cat. No.

Units per package

Fixing brackets for distribution busbar BPZ-KB-xx/250

- Suitable for mounting in the 400 mm (BPZ-KB-12/250) and 600/800 mm (BPZ-KB-24/250) wide compartment inside ProfiSNAP installation system (for EP separate brackets available)



1 pair

BPZ-BR/KB24

102477

1

Colour / Length

Type Designation

Cat. No.

Units per package

Flexible Connector for 4 phase Busbar, BPZ-P



6 mm²

black / 120 mm
blue / 120 mm
black / 320 mm
blue / 320 mm

BPZ-P/L-6/120
BPZ-P/N-6/120
BPZ-P/L-6/320
BPZ-P/N-6/320

102692

10

10 mm²

black / 120 mm
blue / 120 mm
black / 320 mm
blue / 320 mm

BPZ-P/L-10/120
BPZ-P/N-10/120
BPZ-P/L-10/320
BPZ-P/N-10/320

102694

10

Cross section (mm²)

Type Designation

Cat. No.

Units per package

Connector with Insulated Crimp, BPZ-P/C



wa_vt15114, wa_vt15014, wa_vt15214

1.5 - 2.5
4 - 6
6 - 10

BPZ-P/C-1.5/2.5
BPZ-P/C-4/6
BPZ-P/C-6/10

178396

1

xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

General accessories xEnergy Basic

Rated current (A) / Output Terminals

1 pole Terminal Blocks, BPZ-KB

- Mounting onto DIN-rail and mounting plate



80 / 6
125 / 6
125 / 8
160 / 6
160 / 11
175 / 10
250 / 11
400 / 2
400 / 6
400 / 11

BPZ-KB-4/80	289969	1
BPZ-KB-6/125	102714	1
BPZ-KB-2/8/125	178398	1
BPZ-KB-6/160	289970	1
BPZ-KB-2/11/160	178399	1
BPZ-KB-10/175	102715	1
BPZ-KB-11/250	289967	1
BPZ-KB-2/400	178401	1
BPZ-KB-6/400	178400	1
BPZ-KB-11/400	102713	1

- Mounting onto DIN-rail and mounting plate, type aluminium



80 / 6
125 / 6
160 / 6
175 / 1
175 / 10
250 / 11
400 / 1
400 / 2
400 / 6
400 / 11
800 / 2
800 / 2
1100 / 2

BPZ-KB-6/80-ALU	102702	1
BPZ-KB-6/125-ALU	102703	1
BPZ-KB-6/160-ALU	102704	1
BPZ-KB-1/175-ALU	102709	1
BPZ-KB-10/175-ALU	102707	1
BPZ-KB-11/250-ALU	102705	1
BPZ-KB-1/400-ALU	102710	1
BPZ-KB-2/400-ALU	178403	1
BPZ-KB-6/400-ALU	178402	1
BPZ-KB-11/400-ALU	102706	1
BPZ-KB-1/2/800-ALU	102712	1
BPZ-KB-2/2/800-ALU	102711	1
BPZ-KB-2/1100-ALU	178404	1

Dimensions LxWxH (mm) / Suitable for

Type Designation	Cat. No.	Units per package
------------------	----------	-------------------

Terminal Link for 1 pole Terminal Block, BPZ-CL



7x65x25 / Art.-No. 289967
9x70x30 / Art.-No. 102713

BPZ-CL-65/25	102720	10
BPZ-CL-70/30	102721	10

Connection Bar 27 mm for 1 pole Terminal Block, BPZ-CB



16x44x14 / Art.-No. 102714

BPZ-CB-44/14	102722	10
--------------	--------	----

xEnergy Distribution Boards

General accessories xEnergy Basic



3 pole Terminal Block, BPZ-KB/6/175

Mounting onto DIN-rail and mounting plate, type aluminium

175 / 1 / 6

Type
Designation

Cat. No.

Units per
package

BPZ-KB-6/175

102717

1

Mounting onto DIN-rail and mounting plate, type aluminium

175 / 1 / 6

BPZ-KB-6/175-ALU

102708

1



4 pole Terminal Blocks, BPZ-KB

125 / 1x(L1/L2/L3/N) / 7x(L1/L2/L3), 10xN

BPZ-KB-8/125

289968

1

125

BPZ-KB-9/125

102718

1

125

BPZ-KB-13/125

102719

1



160 / 1x(L1/L2/L3/N) / 11x(L1/L2/L3/N)

BPZ-KB-11/160

102716

1



100 / 7x per pole (either in- or output)

BPZ-KB-4-7/100

EP-500557

1

125 / 12x per pole (either in- or output)

BPZ-KB-4-12/125

EP-500558

1

125 / 15x per pole (either in- or output)

BPZ-KB-4-15/125

EP-500559

1

160 / 12x per pole (either in- or output)

BPZ-KB-4-12/160

EP-500560

1

xEnergy Basic

Max. Rated current (A) / Cross section (mm²) / Number of connection points

Compact distribution blocks BPZ-KC-...-ALU

Mounting onto DIN-rail
For copper as well as aluminium conductors



82 / 16 / 1

BPZ-KC-1/16-ALU

195327 10
195328 10
195329 10



135 / 35 / 1

BPZ-KC-1/35-ALU

195330 10
195331 10
195332 10



270 / 35 / 2

BPZ-KC-2/35-ALU

195333 10
195334 10
195335 10



160 / 50 / 1

BPZ-KC-1/50-ALU

195336 10
195337 10
195338 10



320 / 50 / 2

BPZ-KC-2/50-ALU

195339 10
195340 10
195342 10



250 / 95 / 1

BPZ-KC-1/95-ALU

195343 10
195344 10
195345 10



500 / 95 / 2

BPZ-KC-2/95-ALU

195346 10
195347 10
195348 10



320 / 150 / 1

BPZ-KC-1/150-ALU

195349 10
195350 10
195351 10



640 / 150 / 2

BPZ-KC-2/150-ALU

195352 5
195353 5
195354 5



425 / 240 / 1

BPZ-KC-1/240-ALU

195355 3
195356 3
195357 3



850 / 240 / 2

BPZ-KC-2/240-ALU

195358 3
195359 3
195360 3

xEnergy Distribution Boards

General accessories xEnergy Basic



Wall mounting Bracket Set, for Floor Standing Board

- For IP30(IP31)/IP55 Floor Standing Board
- One set includes 2 wall-mounting angles plus mounting accessories

Type
Designation

Cat. No. Units per
package

BPZ-WW

142474 1



Wall mounting Bracket Set, for Moisture Proof-Surface Mounting Installation Board

- For IP55 Surface Mounting Boards
- For fixing the enclosures on the wall
- Vertical or horizontal mounting
- One set includes 4 wall-mounting angles plus mounting accessories

Zinc coated steel sheet 3 mm
Bright stainless steel 2 mm

WFB-SET-CS
BPZ-WFB-INOX

112639 1
EP-500555 1



Lifting-Eye Bolt, BPZ-LE

BPZ-LE

286770 1



Flask with Brush Applicator, BPZ-CPS, PAINT-RAL

- RAL 7035, 30ml
- RAL 9016, 30ml

BPZ-CPS-7035

286771 1

PAINT-RAL9016

288948 1

xEnergy Basic

xEnergy Basic

Cross section (mm²) / Length (mm)

Door Grounding Set, BFZ-DES

6 / 300

BFZ-DES

Type
Designation

Cat. No.

Units per
package

101665

1



Fixing Material, EGM, KM-6

- Fixing cage (set of 100 pieces)
- Slide nut M4 (set of 100 pieces)
- Slide nut M5 (set of 100 pieces)

EGM-F

275417

1

EGM-4

275418

1

EGM-5

275419

1



Replacement Hinge, BPZ-MH

- Replacement for all IP43/IP44-Enclosures (type BPA-...) and IP54/IP55-Enclosures (type BPM-...)
- 1 hinge bracket incl. hinge pin

Replacement Hinge

BPZ-MH

166660

1



Screws, BPZ-S-...

- M5x12 (standard screw of the board)
- M4x8 (flange plate)

M5 / 12

BPZ-S-M5x12

120719

20

M4 / 8

BPZ-S-M4x8

120720

20

xEnergy Distribution Boards

General accessories xEnergy Basic



Description	Type Designation	Cat. No.	Units per package
Locks, 61005			
• Type SS-KS-61005: lock and key set 61005			
• Number of locks required per door in the technic part!			
Lock and key set 61005	SS-KS-61005	275422	1
Metal key 61005	MS-61005	275423	1
Plastic key 61005	KS-61005	275424	1



Replacement Clip-down Handle for standard half-cylinder length 40 mm			
1-point locking with tongue			
Clip-down handle Softline short	BPZ-SH	116690	1
Clip-down handle Softline long	BPZ-SH-L1P	187864	1
3-point locking with rod drive			
Clip-down handle Softline long	BPZ-SH-L	131560	1

Clip-down Handle to retrofit for half-cylinder length 50 mm			
1-point locking with tongue	BPZ-SH-L1P/OLU	187865	1
3-point locking with rod	BPZ-SH-L-3P/OLU	187866	1

Locks, BPZ-LOCK			
• Replacement part for all enclosures with rotary door lock or dual-bit lock			
• Number of locks required per door in the technic part!			
For IP30(IP31)/IP54(IP55), Surface-Mounting and Floor-Standing Distribution Boards			
Dual-bit 3 mm inclusive 1 key	BPZ-LOCK/DBIT3	178405	1
Simultaneous lock cylinder inclusive 2 keys	BPZ-LOCK	102467	1
Ease-of-use Swing handle			
• Swing handle suitable for standardized profile half-cylinders			
• With integrated indication of lock position			
• Available as a retro-fitting or complete set			
• Handle made of high-grade shock-proof zinc die-casting			
• Retrofit kit used in combination with BPZ-LOCK/DBIT3			
• For standardized door cut-outs sized 22.5 x 20.4 mm			
• Colour dusty grey RAL 7037, powder-coated			
• Profile half-cylinder to be ordered separately			
For IP30/IP55, Surface-Mounting and Floor-Standing Distribution Boards			
Retro-fitting set	PHZ-A-ADD-ON	133106	1

xEnergy Basic

xEnergy Basic

Description	Type Designation	Cat. No.	Units per package
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Locks, BPZ-LOCK			
For IP30, Surface-Mounting and Floor-Standing Distribution Boards, lock SH			
Lock SH6	BPZ-LOCK/SH6METAL	116913	1
Key SH6	BPZ-KEY/SH6	116674	1
For IP30, Surface-Mounting and Floor-Standing Distribution Boards, lock DH			
Lock DH	BPZ-LOCK/DHMETAL	116914	1
Key DH	BPZ-KEY/DH	116676	1

Profile Half-Cylinder for diverse Handles			
• For rotary and clip-down ease-of-use handles			
• Lock-cylinder finish according to DIN 18252 and DIN EN 1303			
• Profile half-cylinder 10/30 with pin closures made of nickel silver			
• 8-fold adjustable lock bit, 5 pairs of pins			
• Identical or different locking			
• Number of locks required per door in the technic part!			
1 Key included, keyed alike	PHZ-E10/30-GS	138574	1
3 Keys included, keyed different	PHZ-E10/30-VS	138575	1

Spare Key for Profile Half-Cylinder			
• For profile half-cylinder PHZ-E...-GS			
Identical locking	KEY-E10/30-GS	138576	4

No. of Photo / Version	Type Designation	Cat. No.	Units per package
Lock inserts for mounting in Clip-down handles			
1 7 mm square lock insert	NWS-SHE/4K/7	255306	1
2 8 mm square lock insert	NWS-SHE/4K/8	255307	1
3 7 mm triangular lock insert	NWS-SHE/3K/7	255304	1
4 8 mm triangular lock insert	NWS-SHE/3K/8	255305	1
5 Two-way key bit, 3 mm pin	NWS-SHE/DBL/DN3	255309	1
6 Two-way key bit, 5 mm pin	NWS-SHE/DBL/DN5	255310	1
7 Daimler-Benz insert	NWS-SHE/DB	255308	1
8 Screw driver-type insert	NWS-SHE/SZ	255311	1
9 Lock SH6	BPZ-LOCK/SH6	116673	1
10 Lock DH	BPZ-LOCK/DH	116675	1
- Z-Lock incl. 2 keys	BPZ-LOCK/Z	120766	1
- Volkswagen E1 insert	BPZ-LOCK/VW-E1	122693	1

No. of Photo / Version	Type Designation	Cat. No.	Units per package
Keys for Lock Inserts			
1 7 mm square lock insert	NWS-SL/4K/7	255314	1
2 8 mm square lock insert	NWS-SL/4K/8	255315	1
3 7 mm triangular lock insert	NWS-SL/3K/7	255312	1
4 8 mm triangular lock insert	NWS-SL/3K/8	255313	1
5 Two-way key bit, 3 mm pin	NWS-SL/DBL/3	255317	1
6 Two-way key bit, 5 mm pin	NWS-SL/DBL/5	255318	1
7 Daimler-Benz	NWS-SL/DB	255316	1
- Key SH6	BPZ-KEY/SH6	116674	1
- Key DH	BPZ-KEY/DH	116676	1

xEnergy Distribution Boards

General accessories xEnergy Basic

Description	Type Designation	Cat. No.	Units per package
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Locks, BPZ-LOCK			
For IP30, Surface-Mounting and Floor-Standing Distribution Boards, lock SH			
Lock SH6	BPZ-LOCK/SH6METAL	116913	1
Key SH6	BPZ-KEY/SH6	116674	1
For IP30, Surface-Mounting and Floor-Standing Distribution Boards, lock DH			
Lock DH	BPZ-LOCK/DHMETAL	116914	1
Key DH	BPZ-KEY/DH	116676	1

Profile Half-Cylinder for diverse Handles			
• For rotary and clip-down ease-of-use handles			
• Lock-cylinder finish according to DIN 18252 and DIN EN 1303			
• Profile half-cylinder 10/30 with pin closures made of nickel silver			
• 8-fold adjustable lock bit, 5 pairs of pins			
• Identical or different locking			
• Number of locks required per door in the technic part!			
1 Key included, keyed			

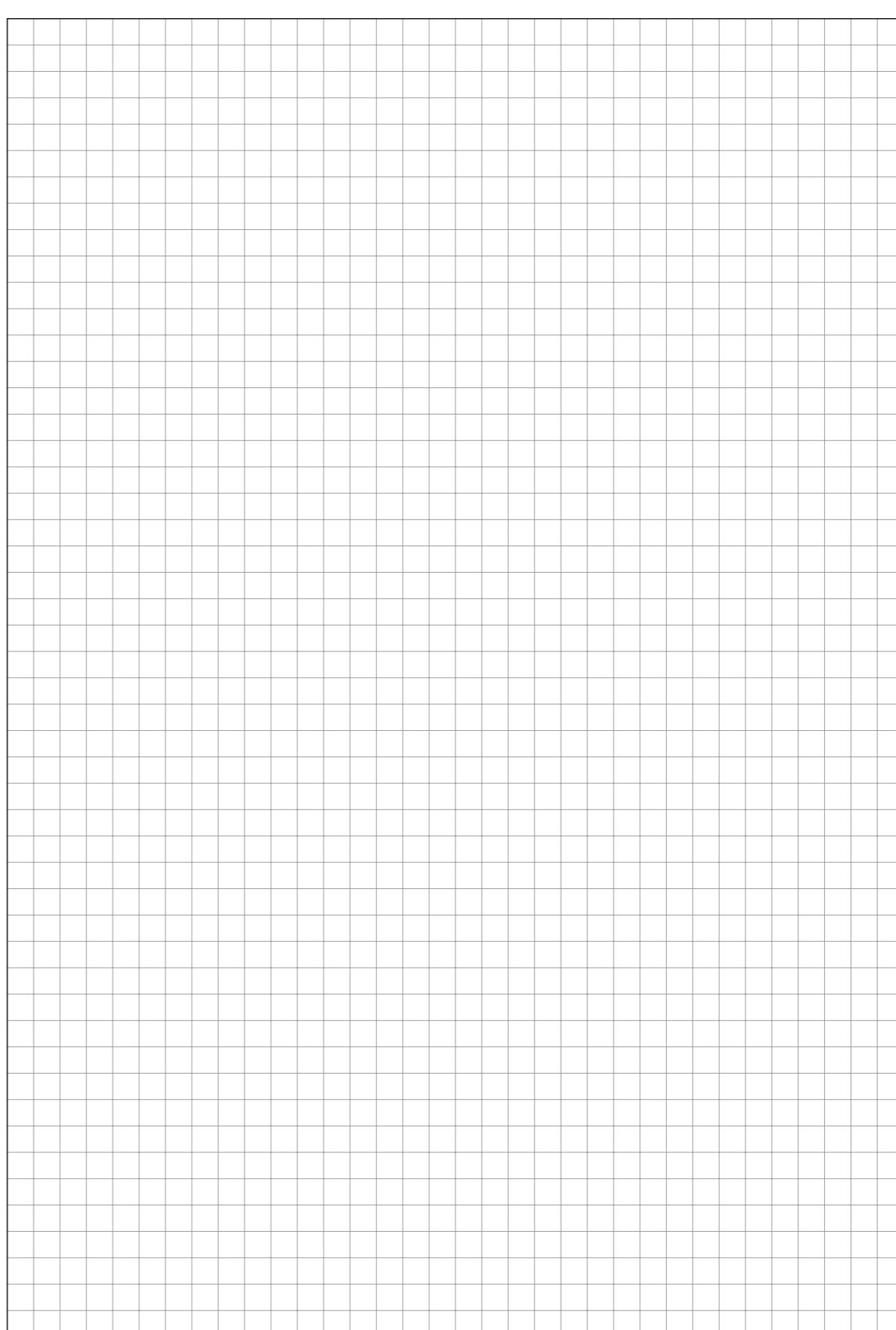
Module units (MU)	Type Designation	Cat. No.	Units per package
Inscription Strip LAB-BAR			
13	LAB-BAR_13TE	107884	10
24	LAB-BAR_24TE	107901	10
35	LAB-BAR_35TE	107903	10
46	LAB-BAR_46TE	107906	10
57	LAB-BAR_57TE	107909	10

Length (m)	Type Designation	Cat. No.	Units per package
Holder for Inscription Strip universal, LAB-BAR			
1	LAB-BAR_1000	107911	10
3	LAB-BAR_3000	107912	10

Description	Type Designation	Cat. No.	Units per package
Accessories Inscription Strip LAB			
Enclosure leaves for the inscription strips, LAB-TAPE_A4			
empty	LAB-TAPE_A4_BLANK	107952	10
imprint	LAB-TAPE_A4_PRINT	107953	10

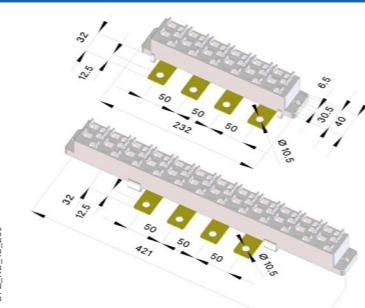
Circuit Diagram Bag, LAB-BAG_A4			
Size A4		LAB-BAG_A4	107913 1

XAB4 Circuit Diagram Box			
A4 panel format, self-adhesive		XAB4	283482 1



4-Phase Busbar, BPZ-KB-12/250, BPZ-KB-24/250

- It is a 250 A busbar intended to supply a row of modular devices
- Max. current rating for every output is 63 A
- Outputs: 6 or 12 outputs per phase, neutral wiring 12 or 24
- Each connector automatically locks, which guarantees high security
- No risk of direct contact, according to IP20
- Dimensions:
BPZ-KB-12/250 (BxHxT) 232x40x50 mm
BPZ-KB-24/250 (BxHxT) 422x40x50 mm
- Scope of delivery: 1 pc. 4-Phase busbar

**Mounting Elements for 4-Phase Busbar, BPZ-BR/KB24**

- For mounting a 4-phase busbar onto an NZM-mounting plate or onto mounting pillars in back
- Material: Sheet steel, zinc-coated
- Scope of delivery: 2 Mounting elements, fixing material

Flexible Connector for 4-Phase Busbar, BPZ-P

- For connecting a 4-phase busbar
- In 6 mm² or 10 mm²
- Length: 120 or 320 mm
- Scope of delivery: 1 flexible connector

1-pole terminal block, BPZ-KB

- For copper conductors
- Mounting onto device rail and/or mounting plate
- UL-listed
- Time-saving on wiring
- Saves 80 % on space used
- Modular construction allowing to build systems of 1 to 4 poles by using several blocks
- Scope of delivery: 1 1-pole terminal block

Technical data

Type	Rated current	Degree of protection	Inputs (mm ²)	Torque (Nm)	Outputs (mm ²)	Torque (Nm)	Connection	Dimensions L x B x H (mm)
BPZ-KB-4/80	80 A	IP20	3x 2.5-25 (solid wire) 3x 2.5-16 (fine wire)	1.5 1.5	4x 2.5-6	0.8	-	65.5 x 27 x 47
BPZ-KB-6/125	125 A	IP20	1x 10-35 1x 2.5-25 (solid wire) 1x 2.5-16 (fine wire)	3.5 2 2	6x 2.5-16	2	-	74 x 27 x 46
BPZ-KB-2/8/125	125 A	IP10	2x 10-35 (solid wire) 2x 2.5-25 (solid wire) 2x 6-25 (fine wire) 2x 1.5-16 (fine wire)	8 2 8 2	6x 1.5-16 (solid wire) 6x 1.5-10 (fine wire)	2	-	91 x 27 x 51
BPZ-KB-6/160	160 A	IP20	1x 10-70 (solid wire) 1x 10-50 (fine wire)	4	6x 2.5-25 (solid wire) 6x 2.5-16 (fine wire)	2	Lateral parallel connection possible with Cu 16 x 5 mm	92 x 35 x 50
BPZ-KB-2/11/160	160 A	IP10	2x 25-70 (solid wire) 3x 2.5-25 (solid wire) 2x 16-50 (fine wire) 3x 1.5-16 (fine wire)	9 2 9 2	8x 1.5-16 (solid wire) 8x 1.5-10 (fine wire)	2 2	-	91 x 36 x 51
BPZ-KB-10/175	175 A	IP20	1x 10-70 (solid wire) 1x 10-50 (fine wire)	4	10x 2.5-16 (solid wire) 10x 2.5-10 (fine wire)	2	-	71 x 45 x 43
BPZ-KB-11/250	250 A	IP10	1x 35-120 (solid wire) 3x 35-95 (fine wire)	19	2x 2.5-35 (solid wire) 2x 2.5-25 (fine wire) 5x 2.5-16 4x 2.5-10	3.5 3.5 2 2	-	95.4 x 44.5 x 49

BPZ-KB-...-ALU

- For copper as well as aluminium conductors
- Mounting onto device rail and/or mounting plate
- UL-listed
- Time-saving on wiring
- Saves 80 % on space used
- Modular construction allowing to build systems of 1 to 4 poles by using several blocks
- Scope of delivery: 1 1-pole terminal block

Technical data

Type	Rated current	Degree of protection	Inputs (mm ²)	Torque (Nm)	Outputs (mm ²)	Torque (Nm)	Connection	Dimensions L x B x H (mm)
BPZ-KB-2/400	400 A	IP10	1x 95-240 (solid wire) 1x 70-185 (fine wire)	26	2x 50-120 (solid wire) 2x 35-95 (fine wire)	19	-	103 x 44.4 x 50
BPZ-KB-6/400	400 A	IP10	1x 95-240 (solid wire) 1x 70-185 (fine wire)	26	6x 10-50 (solid wire) 6x 6-35 (fine wire)	3.5	-	103 x 44.4 x 50
BPZ-KB-11/400	400 A	IP10	1x 95-185 (solid wire) 1x 95-150 (fine wire)	26	2x 2.5-35 (solid wire) 2x 2.5-25 (fine wire) 5x 2.5-16 4x 2.5-10	3.5 3.5 2 2	-	95.4 x 44.5 x 49
BPZ-KB-6/80-ALU	80 A (Cu) 63 A (Al)	IP20	3x 2.5-25 (solid wire) 3x 2.5-16 (fine wire)	1.5	4x 2.5-6	0.8	-	65.5 x 27 x 47
BPZ-KB-6/125-ALU	125 A (Cu) 100 A (Al)	IP20	1x 10-35 1x 2.5-25 (solid wire) 1x 2.5-16 (fine wire)	3.5 2 2	6x 2.5-16	2	-	74 x 27 x 46
BPZ-KB-6/160-ALU	160 A (Cu) 135 A (Al)	IP20	1x 10-70 (solid wire) 1x 10-50 (fine wire)	4	6x 2.5-25 (solid wire) 6x 2.5-16 (fine wire)	2	Lateral parallel connection possible with Cu 16 x 5 mm	92 x 35 x 50
BPZ-KB-1/175-ALU	175 A (Cu) 135 A (Al)	IP20	1x 2.5-70 (solid wire) 1x 2.5-50 (fine wire)	4	1x 2.5-70 (solid wire) 1x 2.5-50 (fine wire)	4	-	72.5 x 25.4 x 49.4
BPZ-KB-10/175-ALU	175 A (Cu) 135 A (Al)	IP20	1x 10-70 (solid wire) 1x 10-50 (fine wire)	4	10x 2.5-16 (solid wire) 10x 2.5-10 (fine wire)	2	-	71 x 45 x 43
BPZ-KB-11/250-ALU	250 A (Cu) 200 A (Al)	IP10	1x 35-120 (solid wire) 1x 35-95 (fine wire)	19	2x 2.5-35 (solid wire) 2x 2.5-25 (fine wire) 5x 2.5-16 4x 2.5-10	3.5 3.5 2 2	-	95.4 x 44.5 x 49
BPZ-KB-1/400-ALU	400 A (Cu) 300 A (Al)	IP10	1x 35-240 (solid wire) 1x 16-185 (fine wire)	20	1x 35-240 (solid wire) 1x 16-185 (fine wire)	3.5 3.5 2 2	Lateral parallel connection possible with Cu 9 x 4 mm - max. 20 x 10 mm	145.5 x 39 x 80.5
BPZ-KB-2/400-ALU	400 A (Cu) 350 A (Al)	IP10	1x 95-240 (solid wire) 1x 70-185 (fine wire)	26	2x 50-120 (solid wire) 2x 35-95 (fine wire)	19	-	103 x 44.4 x 50
BPZ-KB-6/400-ALU	400 A (Cu) 350 A (Al)	IP10	1x 95-240 (solid wire) 1x 70-185 (fine wire)	26	6x 10-50 (solid wire) 6x 6-35 (fine wire)	3.5	-	103 x 44.4 x 50
BPZ-KB-11/400-ALU	400 A (Cu) 300 A (Al)	IP10	1x 95-185 (solid wire) 1x 95-150 (fine wire)	26	2x 2.5-35 (solid wire) 2x 2.5-25 (fine wire) 5x 2.5-16 4x 2.5-10	3.5 3.5 2 2	-	95.4 x 44.5 x 49
BPZ-KB-1/2/800-ALU	800 A (Cu) 630 A (Al)	IP10	1x 35-300 (solid wire) 1x 25-240 (fine wire) 9 x 4mm - 50 x 10 mm Cu	25	1x 35-300 (solid wire) 1x 25-240 (fine wire)	25	Lateral parallel connection possible with Cu 9 x 4 mm - max. 24 x 10 mm	145 x 72 x 80.5
BPZ-KB-2/2/800-ALU	800 A (Cu) 630 A (Al)	IP10	2x 35-300 (solid wire) 2x 25-240 (fine wire) 9 x 4 mm - 24 x 10 mm Cu	25	2x 35-300 (solid wire) 2x 25-240 (fine wire) 9 x 4 mm - 24 x 10 mm Cu	25	-	145 x 72 x 80.5
BPZ-KB-2/2/1100-ALU	1100 A (Cu) 900 A (Al)	IP10	1x 95-500	80	2x 50-300 (solid wire) 1x 1.5-16 (solid wire) 2x 50-240 (solid wire) 1x 1.5-10 (fine wire)	50 3 50 3	-	202 x 90 x 107

Connection latch for 1-pole terminal block BPZ-CL

- BPZ-CL-65/25 suitable for BPZ-KB-11/250
- BPZ-CL-70/35 suitable for BPZ-KB-11/400
- Dimensions (LxBxH)
BPZ-CL-65/25: 7 x 65 x 25 mm
BPZ-CL-70/35: 9 x 70 x 30 mm
- Scope of delivery: 1 connection latch

Connection bar 27 mm for 1-pole terminal blocks BPZ-CB

- Suitable for BPZ-KB-6/125
- Dimensions (LxBxH): 16 x 44 x 14 mm
- Scope of delivery: 1 connection bar

3-pole Terminal Block BPZ-KB-6/175

- Mounting onto DIN-rail and mounting plate
- UL-listed
- Time-saving on wiring
- Saves 80% of space used
- Modular construction allowing to build systems of 1 to 4 poles by using several blocks
- Protection class: IP20
- Max. operating voltage 1000V AC, 1500V DC
- Scope of delivery: 1 3-pole terminal block

Technical data

BPZ-KB-6/175	Torque (Nm)
Rated current	175 A
Input (mm ²)	1 x 16-70
Outputs (mm ²)	6 x 2.5-16
Connection	—
Dimensions L x B x H (mm)	80 x 71.5 x 42.5

3-pole Terminal Block BPZ-KB-6/175-ALU

- Aluminium design
- Mounting onto DIN-rail and mounting plate
- UL-listed
- Time-saving on wiring
- Saves 80% of space used
- Modular construction allowing to build systems of 1 to 4 poles by using several blocks
- Protection class: IP20
- Max. operating voltage 1000V AC, 1500V DC
- Scope of delivery: 1 3-pole terminal block

Technical data

BPZ-KB-6/175-ALU	Torque (Nm)
Rated current	175 A / 125 A
Input (mm ²)	1 x 16-70
Outputs (mm ²)	6 x 2.5-16
Connection	—
Dimensions L x B x H (mm)	80 x 71.5 x 42.5

4-pole Terminal Blocks, BPZ-KB

- Mounting onto DIN-rail and mounting plate
- Max. operating voltage
BPZ-KB-9/125: 690V AC/DC
BPZ-KB-13/125: 690V AC/DC
BPZ-KB-8/125: 1000C AC/1500V DC
BPZ-KB-11/160: 1000C AC/1500V DC
- Scope of delivery: 1 4-pole terminal block

Technical data

	BPZ-KB-8/125 Torque (Nm)	BPZ-KB-9/125 Torque (Nm)	BPZ-KB-13/125 Torque (Nm)	BPZ-KB-11/160 Torque (Nm)
Rated current (Cu / Al)	125 A	125 A	125 A	160 A
Input (mm ²)	1 x 6-35	1.5	2 x 6-35	1.5
Outputs (mm ²)	3-polig x (5 x 1.5-6 / 2 x 4-16)	0.8-1.5	7 x 2.5-10	1.5
Connection	1-polig x (4 x 1.5-10 / 6 x 4-16)	1.5	2 x 1.5-10	1.5
Dimensions L x B x H (mm)	74.5 x 98 x 49	102 x 89 x 48	103 x 126 x 48	87 x 162 x 50

Lifting-Eye Bolt, BPZ-LE

- For transporting the distribution board by crane, high-lift truck, etc.
- To be mounted onto the top of the floor-standing distribution board
- Max. static tensile force: 1400 N each, total 3800 N
- Weight: approx. 0.2 kg
- Scope of delivery: 4 Lifting-eye bolts

Flask with Brush Applicator, BPZ-CPS, PAINT-RAL

- For sanding scratches in RAL 7035, 9010 or 9016
- Scope of delivery: 1 flask with brush applicator

Compact distribution blocks BPZ-KC-...-ALU

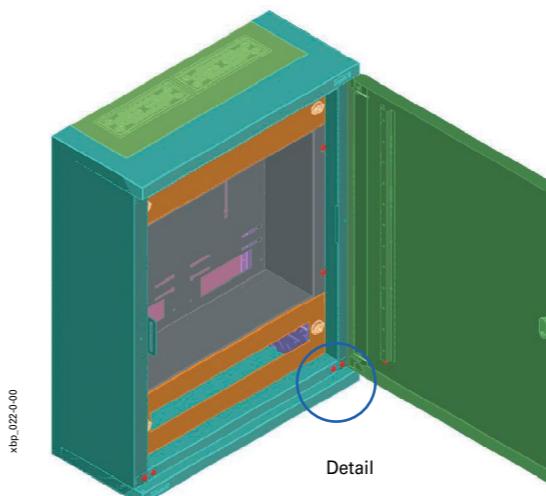
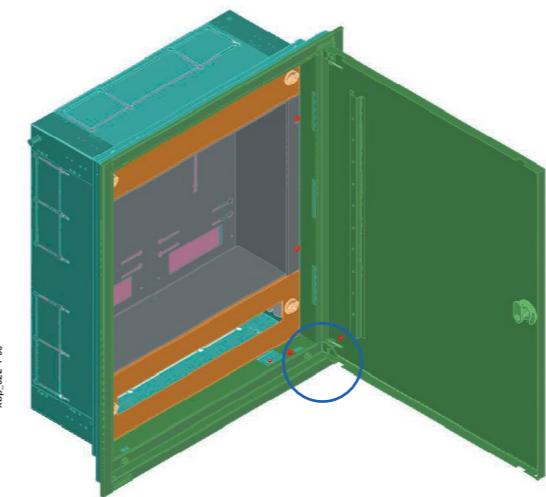
- For copper as well as aluminium conductors
- Used as link between copper- and aluminum conductors
- Mounting onto device rail
- Degree of protection IP20 (finger-safe finish is guaranteed)
- Cross sections of connections 16 - 240 mm²
- Available as standard grey colour, with blue cover for Neutral and as PE-terminal in colour yellow/green (housing/cover)
- Scope of delivery: 1-pole distribution block acc.to MOQ (depending on frame size)

Technical data

Type	Rated current Cu / Al	Number Inputs / Outputs	Cross section mm ² solid wire	Cross section mm ² fine wire with sleeve	Rated voltage	Colour	Dimensions L x B x H [mm]	Minimum order quantity (MOQ) [pcs.]
BPZ-KC-1/16-ALU	82 A / 75 A	1/1	1.5 - 16	1.5 - 10	1000 V AC/DC	Grey	45 x 14 x 40	10
BPZ-KC-1/16N-ALU	82 A / 75 A	1/1	1.5 - 16	1.5 - 10	1000 V AC/DC	Blue	45 x 14 x 40	10
BPZ-KC-1/16PE-ALU	82 A / 75 A	1/1	1.5 - 16	1.5 - 10	1000 V AC/DC	Yellow/Green	45 x 14 x 40	10
BPZ-KC-1/35-ALU	135 A / 120 A	1/1	2.5 - 35	2.5 - 25	1000 V AC/DC	Grey	46 x 16 x 40	10
BPZ-KC-1/35N-ALU	135 A / 120 A	1/1	2.5 - 35	2.5 - 25	1000 V AC/DC	Blue	46 x 16 x 40	10
BPZ-KC-1/35PE-ALU	135 A / 120 A	1/1	2.5 - 35	2.5 - 25	1000 V AC/DC	Yellow/Green	46 x 16 x 40	10
BPZ-KC-2/35-ALU	2x 135 A / 2x 120 A	2/2	2.5 - 35	2.5 - 25	1000 V AC/DC	Grey	46 x 27 x 40	10
BPZ-KC-2/35N-ALU	2x 135 A / 2x 120 A	2/2	2.5 - 35	2.5 - 25	1000 V AC/DC	Blue	46 x 27 x 40	10
BPZ-KC-2/35PE-ALU	2x 135 A / 2x 120 A	2/2	2.5 - 35	2.5 - 25	1000 V AC/DC	Yellow/Green	46 x 27 x 40	10
BPZ-KC-1/50-ALU	160 A / 145 A	1/1	2.5 - 50	2.5 - 35	1000 V AC/DC	Grey	49 x 18 x 43	10
BPZ-KC-1/50N-ALU	160 A / 145 A	1/1	2.5 - 50	2.5 - 35	1000 V AC/DC	Blue	49 x 18 x 43	10
BPZ-KC-1/50PE-ALU	160 A / 145 A	1/1	2.5 - 50	2.5 - 35	1000 V AC/DC	Yellow/Green	49 x 18 x 43	10
BPZ-KC-2/50-ALU	2x 160 A / 2x 145 A	2/2	2.5 - 50	2.5 - 35	1000 V AC/DC	Grey	49 x 30 x 43	10
BPZ-KC-2/50N-ALU	2x 160 A / 2x 145 A	2/2	2.5 - 50	2.5 - 35	1000 V AC/DC	Blue	49 x 30 x 43	10
BPZ-KC-2/50PE-ALU	2x 160 A / 2x 145 A	2/2	2.5 - 50	2.5 - 35	1000 V AC/DC	Yellow/Green	49 x 30 x 43	10
BPZ-KC-1/95-ALU	250 A / 220 A	1/1	6 - 95	6 - 70	1000 V AC/DC	Grey	84 x 24 x 51	10
BPZ-KC-1/95N-ALU	250 A / 220 A	1/1	6 - 95	6 - 70	1000 V AC/DC	Blue	84 x 24 x 51	10
BPZ-KC-1/95PE-ALU	250 A / 220 A	1/1	6 - 95	6 - 70	1000 V AC/DC	Yellow/Green	84 x 24 x 51	10
BPZ-KC-2/95-ALU	2x 250 A / 2x 220 A	2/2	6 - 95	6 - 70	1000 V AC/DC	Grey	84 x 41 x 51	10
BPZ-KC-2/95N-ALU	2x 250 A / 2x 220 A	2/2	6 - 95	6 - 70	1000 V AC/DC	Blue	84 x 41 x 51	10
BPZ-KC-2/95PE-ALU	2x 250 A / 2x 220 A	2/2	6 - 95	6 - 70	1000 V AC/DC	Yellow/Green	84 x 41 x 51	10
BPZ-KC-1/150-ALU	320 A / 290 A	1/1	25 - 150	25 - 120	1000 V AC/DC	Grey	84 x 30 x 54	10
BPZ-KC-1/150N-ALU	320 A / 290 A	1/1	25 - 150	25 - 120	1000 V AC/DC	Blue	84 x 30 x 54	10
BPZ-KC-1/150PE-ALU	320 A / 290 A	1/1	25 - 150	25 - 120	1000 V AC/DC	Yellow/Green	84 x 30 x 54	10
BPZ-KC-2/150-ALU	2x 320 A / 2x 290 A	2/2	25 - 150	25 - 120	1000 V AC/DC	Grey	84 x 50 x 54	5
BPZ-KC-2/150N-ALU	2x 320 A / 2x 290 A	2/2	25 - 150	25 - 120	1000 V AC/DC	Blue	84 x 50 x 54	5
BPZ-KC-2/150PE-ALU	2x 320 A / 2x 290 A	2/2	25 - 150	25 - 120	1000 V AC/DC	Yellow/Green	84 x 50 x 54	5
BPZ-KC-1/240-ALU	425 A / 380 A	1/1	35 - 240	35 - 185	1000 V AC/DC	Grey	106 x 36 x 65	3
BPZ-KC-1/240N-ALU	425 A / 380 A	1/1	35 - 240	35 - 185	1000 V AC/DC	Blue	106 x 36 x 65	3
BPZ-KC-1/240PE-ALU	425 A / 380 A	1/1	35 - 240	35 - 185	1000 V AC/DC	Yellow/Green	106 x 36 x 65	3
BPZ-KC-2/240-ALU	2x 425 A / 2x 380 A	2/2	35 - 240	35 - 185	1000 V AC/DC	Grey	106 x 59 x 65	3
BPZ-KC-2/240N-ALU	2x 425 A / 2x 380 A	2/2	35 - 240	35 - 185	1000 V AC/DC	Blue	106 x 59 x 65	3
BPZ-KC-2/240PE-ALU	2x 425 A / 2x 380 A	2/2	35 - 240	35 - 185	1000 V AC/DC	Yellow/Green	106 x 59 x 65	3

Door grounding set, BFZ-DES

- In scope of delivery of all ProfiSNAP doors
- For grounding the door
- Length: 300 mm
- Cross section: 6 mm²
- Scope of delivery: 1 grounding wire with pre-fitted eyelets, fixing material

Surface mounted boards BP-O**Flush mounted boards BP-U**

Detail

Detail

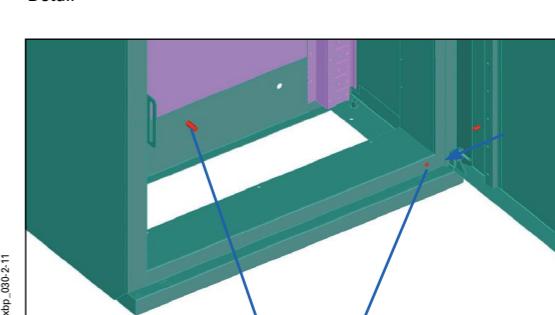
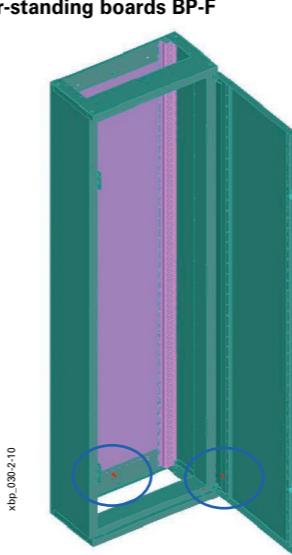
Detail

Detail

Detail

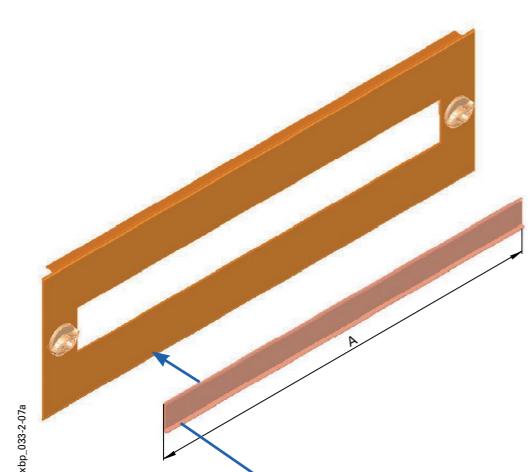
Connection of earthing set for door.
Nut in the board frame and earthing
screw on the doorCentral earthing screw in rear side of
a board

Detail

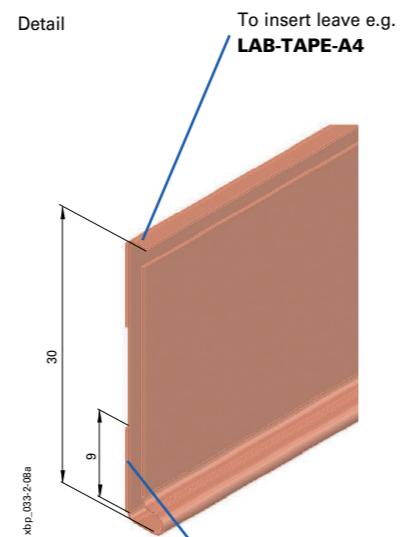
Central earthing screw in rear side of
a board

Inscription strips, LAB-BAR**Dimensions [mm]**

Type	Number of modules MU	Length A
LAB-BAR_13TE	13	228
LAB-BAR_24TE	24	420
LAB-BAR_46TE	46	805
LAB-BAR_57TE	57	998
LAB-BAR_1000	-	1000
LAB-BAR_3000	-	3000



LAB-BAR
Inscription strips.
Mounting onto front plate by means
of self-sealing strips.

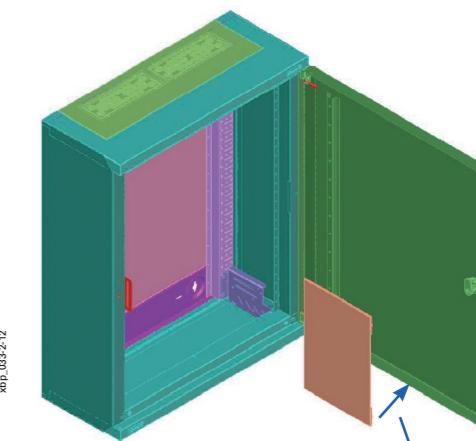
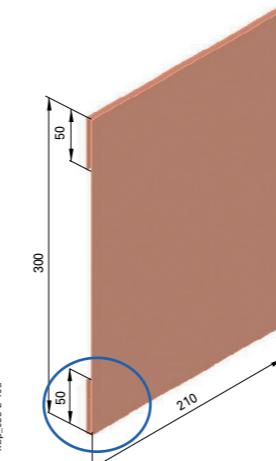
**Enclosure leaves LAB-TAPE_A4 for the inscription strips LAB-BAR****Technical data**

Empty:

1 sheet contains 8 strips of width 27 mm and length 297 mm.
Perforated for easy-to-remove.

Imprinted:

For device width	Numerical print
1,5 MU	1-30
2 MU	1-24
3 MU	1-5
4 MU	1-4

Circuit diagram bag, LAB-BAG_A4**Dimensions [mm]**

Circuit diagram bag LAB-BAG
can be fitted onto a door via two
self-sealing strips at the top and
bottom

xEnergy Distribution Boards

Overall technical data xEnergy Basic

193170_LDO_293313_LDO_501316_LDO



Distribution Boards

Distribution Boards

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xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

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System Overview

Eaton Online Katalog - find product details quickly and efficiently!

You can find comprehensive up-to-date product information at <http://ecat.eaton.com/catalog>

Online Catalogue

Lookup

You can search by keywords, product names, article numbers, technical data: The search understands everything and takes you straight to the product you're looking for.

Graphical navigation

Graphical representation of the fields of application and product groups.

Selection aids

Tailored to the typical expert's approach, this search aid helps you quickly find the product you need.

Data sheets

For every article the catalog can generate a technical data sheet, which you can convert to a PDF file for printing or saving with a single click.

Parts lists

From your search results you can create a parts list that you can then send to your Eaton sales partner as a query.

The screenshot shows a search results page for the product group 'BPM-O'. It displays several product entries, each with a thumbnail, part number, name, and a link to 'View' or 'Edit parts list'. The products listed include surface-mounted and floor-standing distribution boards from various series like BPM-O, BPM-M, and BPM-F, all in IP55 protection class.

Parts list, e.g. for queries to Eaton Sales.

Eaton xEnergy Configurator - makes it easy to configure your product!

The Eaton configurator helps you by assembling the switchboard systems by keeping all standards. If you are interested, please contact your local Eaton representative.

The screenshot shows the Eaton xEnergy Configurator software interface. It features a 3D CAD-like view of a switchboard assembly with various components like circuit breakers, fuses, and connectors. The left side has a tool bar and a tree view of the configuration steps, while the right side shows detailed component properties and settings.

Eaton Temperatur Calculator Tool - temperature rise verification by calculation!

Calculating the temperature rise within the switchgear and controlgear assembly: Calculate power loss of all circuits including the incoming conductor on the basis of the rated current. Power loss of the switchgear and controlgear assembly is calculated by adding up the power losses of all circuits (total load current is limited to the rated current of the switchgear and controlgear assembly).

The screenshot shows the Eaton Temperatur Calculator Tool software. It has a left sidebar with options like 'Calculator', 'Heat calculation verification', and 'Help'. The main area shows a configuration dialog for a 'Heat calculation verification' project. It includes fields for 'Manufacturer name' (Eaton), 'Height cabinet' (1119.65 mm), 'Width cabinet' (1000 mm), 'Depth cabinet' (300 mm), 'Material cabinet wall' (Steel, thickness 2.5 mm), 'Installation type' (Single cabinet on all sides derated), 'Circuit number' (1), 'Ambient temperature' (25 °C), 'Inside temperature, maximum' (55 °C), 'Temperature difference, maximum' (30 K), 'Power dissipation, installed' (10.79 W), 'Power loss outside capacity cabinet' (455.31 W), and 'Cooling capacity required' (-444.62 W). A note at the bottom states 'Heat capacity IEC61439-1 for I_{th} < 630 A'.

xEnergy Distribution Boards

Overall technical data xEnergy Basic

Technical Data

Standards	IEC/EN 61439-1/-2/-3, IEC 62208
Degree of protection	IP2XC (door opened, closed front cover level) IP31 (at least with canopy) IP43 (BPA-U-3S and BP-VF dedicated for outdoor use) IP54 (BPM-U-35) IP55
Mechanical impact protection	IK08 (IP31/IP43/IP54) IK10 (BP-VF) IK10 (IP55)
Form of separation	up to Form 4b (in combination with ProfiSNAP installation system)
Internal segregation	IPXXB
Rated insulation voltage [Ui]	440 VAC
Rated operational voltage [Ue]	415 VAC
Ambient air temperature	-5°C to +40°C
Place of installation	Indoor use severity A (except BPA-U-3S and BP-VF)
Rated impulse withstand voltage [Uimp]	4 kV
Overshoot category	III
Pollution degree	3
Protection against electric shock	Protective earthing (protection class I) - all BP types Protective insulation (protection class II) - EWK / EMC2
Joule integral I ² dt for earthing connection	Type BPM-F / BPM-O - Base frame M8 earthing bolt @ 1,25mm sheet metal - Door M6 earthing bolt @ 1,25mm sheet metal 1,16x10 ⁷ A ² s 4,68x10 ⁶ A ² s
Seismic characteristics	IEC/EN 60068-3-3: ground acceleration level AG2 and AG5;
Rated current [Ie]	up to 630A depending on main incomer and used busbar-system
Rated frequency	50 Hz
Rated conditional short-circuit current [Icc]	up to 25/50 kA depending on incoming circuit-breaker and type of cabinet
Rated short-time withstand current [Icw]	depending on used busbar-system like SASY60i, SL630xx etc.
Net configuration	TN-C, TN-C-S, TN-S, TT, IT
Colour	RAL 7035 / RAL 9016
Material of enclosure	Standard sheet-metal (phosphatized and polyester powder-coated) Galvanized parts mainly for interior finish without powder-coating
Dimensions	height: 460 / 760 / 800 / 1060 / 1100 / 1260 / 1400 / 1560 / 1760 / 1910 / 2060 mm width: 350 / 400 / 600 / 800 / 850 / 1000 / 1100 / 1200 / 1350 mm depth: 180 / 240 / 250 / 270 / 300 / 320 / 400 mm

xEnergy Basic

xEnergy Basic

xEnergy Distribution Boards

Overall technical data xEnergy Basic

Testing of a low-voltage switchgear assembly under seismic conditions

- The tests carried out to qualify these switchboards are described in the international standard IEC 60068-3-3.
- On the one hand, it is about the functional integrity of the electrical system, as well as external stability during an earthquake.
- The prerequisite for this is that the distribution board is rigidly connected to the building construction. (K-factor 1.5).
- Wall enclosures are fixed at the designated points, floor-standing cabinets are also placed next to a wall and secured with mounting brackets on the top. A free-standing installation in the room is not covered hereby.
- There is no additional equipment required to achieve earthquake resistance.

Test methods:

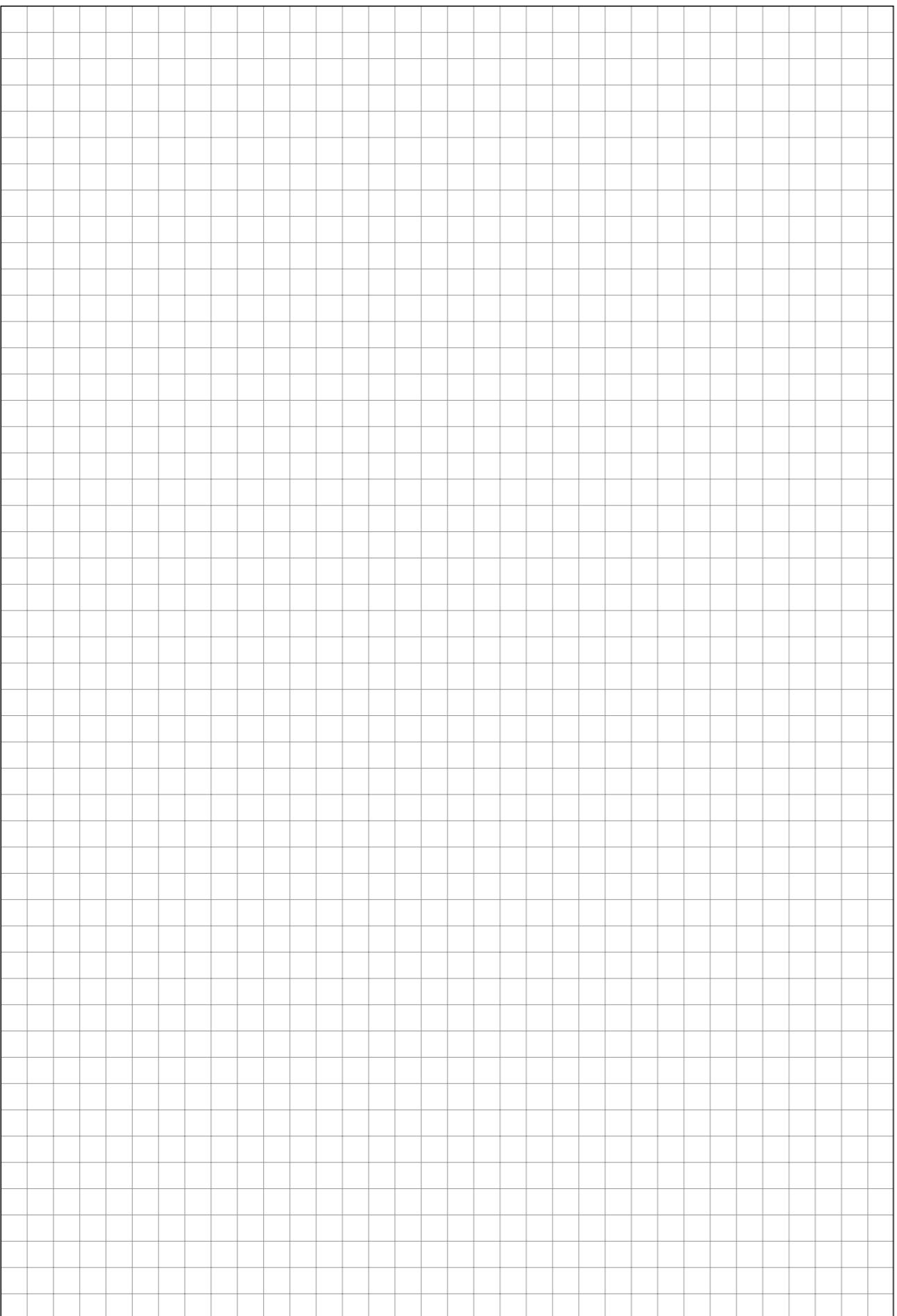
Sine-sweep acc.to IEC 60068-2-6:2008
Time-history and sine-beat acc.to IEC 60068-2-57:2015

- Testing of the selected equipment under test, in the two horizontal and one vertical axis, was carried out to the appropriate "Required Response Spectrum" (RRS) shown as AG2 and AG5 curves of IEC 60068-3-3. As specified in IEC 60068-3-3, the AG5 spectrum, approximates to the Uniform Building Code (UBC) Zone 4.
- Testing was also carried out in general accordance with IEEE Std 344-2013, IEEE recommended practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations. Five "Operating Basis Earthquakes (OBE)" were carried out at AG2 level, followed by a single "Safe Shutdown Earthquake (SSE)" at level AG5.

Classification earthquake protection for xEnergy Basic:

IEC 60068-3-3: ground acceleration level AG2 and AG5; as an orientation, these values are comparable to

- Richter scale magnitude > 7.0
- Uniform Building Code (UBC) Zone 4
- MSK intensity (Medvedev-Sponheur-Karnik corresponds to modified Mercalli Intensity Scale) > IX
- IEEE Std 344-2013 Class 1E (Equipment for Nuclear Power Generating Stations)



193170_LDO, 293313_LDO, 501316_LDO1

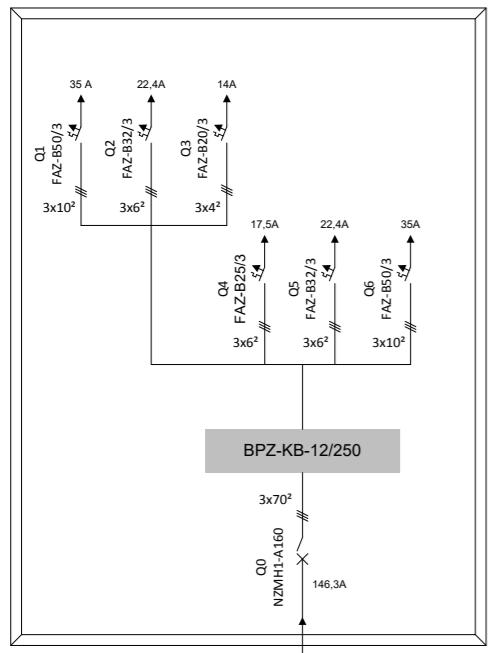
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Temperature rise verification of a switchgear assembly with a single compartment and a rated current not exceeding 630 A according to IEC / EN 61439-1

	Verification by testing acc.to IEC/EN 61439-1 (sub-clause 10.10.2)	Derivation of ratings for similar variants acc.to IEC/EN 61439-1 (sub-clause 10.10.3)
Characteristics of the tested switchgear combination according to the manufacturer's instructions:	Requirements of switchgear assemblies, which are going to be verified in accordance with the tested assembly:	
Rated operational voltage (U_o)	415 VAC	up to 415 VAC
Rated frequency (f_o)	50 Hz	50 Hz / 60 Hz
Rated insulation voltage (U_i)	440 VAC	440 VAC
Pollution degree	3	3
Oversupply category	III	III
Rated impulse withstand voltage (U_{imp})	4 kV	4 kV
Type of enclosure	BPM-0-400/7	BP(M)-O, BP(M)-F
Degree of protection (outside) (installation level)	IP55 IP2XC	\leq IP55 IP2XC
Active ventilation	none	none
Type of assembly	Wall-mounted	Wall-mounted / stand-alone
Side-by-side arrangement	no	no
Dimensions of the enclosure (HxWxD)	760x400x270 mm	\geq 760x400x270 mm
Internal separation	none	none
Ambient temperature	35 °C	35 °C
Max. permissible temperature inside the enclosure	70 °C ($\Delta T = 35$ K)	70 °C ($\Delta T = 35$ K)
Main incomer (MCCB)	Typ NZMH1-A160	Series NZMx1-A... *)
Rated current (I_n)	160 A	up to 160 A
Type of outgoings (MCB/MCCB)	Series FAZ-Bxx/3	Series FAZ, FAZT, FAZ6, PLSM, PLS6, PLS4, CLS6, CLS4, PL6, PL7, PL9, PL10, EM, PXL, mMC
Number of outgoing circuits	6	\geq 6
Rated diversity factor (RDF)	acc.to IEC/EN 61439-2 table 101	acc.to IEC/EN 61439-2 table 101
Conductor cross-sections for rated currents	acc.to IEC/EN 61439-1 table 11	acc.to IEC/EN 61439-1 table 11
Temperature resistance cables (acc.to single-line diagram)	up to 105 °C	up to 105 °C
Temperature resistance flexible (acc.to single-line diagram)	up to 125 °C	up to 125 °C
Calculated power loss (P_v) incl. devices, wiring, busbars, etc.	\sim 110 W ($\pm 5\%$)	\leq 110 W
Rated current of the assembly (I_nA)	146.3 A	\leq 146.3 A *)
Rated current of the assembly of %	\sim 91.5 % of I_n	

Single-line diagram of the assembly with rated current \leq 160 A:



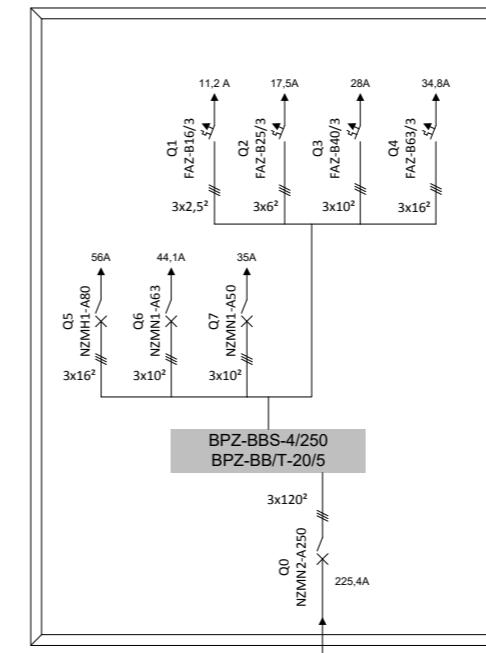
***) Table of rated currents of the assembly with main incomer part of NZMx1-A... series:**

MCCB-Typ	Rated current (I_n)	Rated current of the assembly (I_nA)	% of I_n
NZMx1-A...	20	20	100% (no derating necessary)
	25	25	
	32	32	
	40	40	
	50	50	
	63	63	
	80	80	
	100	100	
	125	122	97.60%
	160	146.3	91.50%

Temperature rise verification of a switchgear assembly with a single compartment and a rated current not exceeding 630 A according to IEC / EN 61439-1

	Verification by testing acc.to IEC/EN 61439-1 (sub-clause 10.10.2)	Derivation of ratings for similar variants acc.to IEC/EN 61439-1 (sub-clause 10.10.3)
Characteristics of the tested switchgear combination according to the manufacturer's instructions:	Requirements of switchgear assemblies, which are going to be verified in accordance with the tested assembly:	
Rated operational voltage (U_o)	415 VAC	up to 415 VAC
Rated frequency (f_o)	50 Hz	50 Hz / 60 Hz
Rated insulation voltage (U_i)	440 VAC	440 VAC
Pollution degree	3	3
Oversupply category	III	III
Rated impulse withstand voltage (U_{imp})	4 kV	4 kV
Type of enclosure	BPM-0-600/10	BP(M)-O, BP(M)-F
Degree of protection (outside) (installation level)	IP55 IP2XC	\leq IP55 IP2XC
Active ventilation	none	none
Type of assembly	Wall-mounting	Wall-mounting / stand-alone
Side-by-side arrangement	no	no
Dimensions of the enclosure (HxWxD)	1060x600x270 mm	\geq 1060x600x270 mm
Internal separation	none	none
Ambient temperature	35 °C	35 °C
Max. permissible temperature inside the enclosure	70 °C ($\Delta T = 35$ K)	70 °C ($\Delta T = 35$ K)
Main incomer (MCCB)	Typ NZMN2-A250	Series NZMx2-A... / NZMx2-VE/AE... *)
Rated current (I_n)	250 A	up to 250 A
Type of outgoings (MCB/MCCB)	Series FAZ-Bxx/3	Series FAZ, FAZT, FAZ6, PLSM, PLS6, PLS4, CLS6, CLS4, PL6, PL7, PL9, PL10, EM, PXL, mMC, Series NZMx1-A..
Number of outgoing circuits	7	\geq 7
Rated diversity factor (RDF)	acc.to IEC/EN 61439-2 table 101	acc.to IEC/EN 61439-2 table 101
Conductor cross-sections for rated currents	acc.to IEC/EN 61439-1 table 11	acc.to IEC/EN 61439-1 table 11
Temperature resistance cables (acc.to single-line diagram)	up to 105 °C	up to 105 °C
Temperature resistance flexible (acc.to single-line diagram)	up to 125 °C	up to 125 °C
Calculated power loss (P_v) incl. devices, wiring, busbars, etc.	\sim 140 W ($\pm 5\%$)	\leq 140 W
Rated current of the assembly (I_nA)	225.4 A	\leq 225.4 A *)
Rated current of the assembly of %	\sim 90.2 % of I_n	

Single-line diagram of the assembly with rated current \leq 250 A:



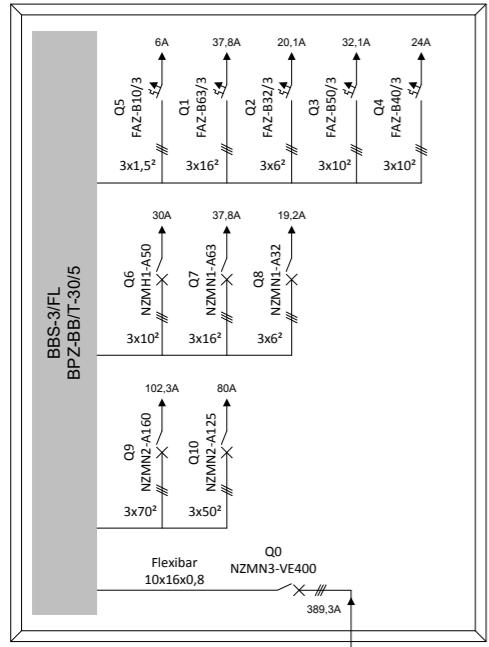
***) Table of rated currents of the assembly with main incomer part of NZMx2-A... / NZMx2-VE/AE... series:**

MCCB-Typ	Rated current (I_n)	Rated current of the assembly (I_nA)	% of I_n
NZMx2-A...	125	125	100% (no derating necessary)
NZMx2-VE/AE...	160	160	
	200	187	93.50%
	250	225.4	90.20%

Temperature rise verification of a switchgear assembly with a single compartment and a rated current not exceeding 630 A according to IEC / EN 61439-1

	Verification by testing acc.to IEC/EN 61439-1 (sub-clause 10.10.2)	Derivation of ratings for similar variants acc.to IEC/EN 61439-1 (sub-clause 10.10.3)
Characteristics of the tested switchgear combination according to the manufacturer's instructions:	Requirements of switchgear assemblies, which are going to be verified in accordance with the tested assembly:	
Rated operational voltage (U_o)	415 VAC	up to 415 VAC
Rated frequency (f_o)	50 Hz	50 Hz / 60 Hz
Rated insulation voltage (U_i)	440 VAC	440 VAC
Pollution degree	3	3
Oversupply category	III	III
Rated impulse withstand voltage (U_{imp})	4 kV	4 kV
Type of enclosure	BPM-O-800/10	BP(M)-O, BP(M)-F
Degree of protection (outside) (installation level)	IP55 IP2XC	\leq IP55 IP2XC
Active ventilation	none	none
Type of assembly	Wall-mounted	Wall-mounted / stand-alone
Side-by-side arrangement	no	no
Dimensions of the enclosure (HxWxD)	1060x800x270 mm	\geq 1060x800x270 mm
Internal separation	none	none
Ambient temperature	35 °C	35 °C
Max. permissible temperature inside the enclosure	70 °C ($\Delta T = 35$ K)	70 °C ($\Delta T = 35$ K)
Main incomer (MCCB)	Typ NZMN3-VE400	Seriess NZMx3-A... / NZMx3-VE/AE... *)
Rated current (I_n)	400 A	up to 400 A
Type of outgoings (MCB/MCCB)	Series FAZ-Bxx/3 Series NZMx1-A..., NZMN2-A...	Series FAZ, FAZT, FAZ6, PLSM, PLS6, PLS4, CLS6, CLS4, PL6, PL7, PL9, PL10, EM, PXL, mMC, Series NZMx1-A..., NZMx2-A... / NZMx2-VE/AE...
Number of outgoing circuits	10	\geq 10
Rated diversity factor (RDF)	acc.to IEC/EN 61439-2 table 101	acc.to IEC/EN 61439-2 table 101
Conductor cross-sections for rated currents	acc.to IEC/EN 61439-1 table 11	acc.to IEC/EN 61439-1 table 11
Temperature resistance cables (acc.to single-line diagram)	up to 105° C	up to 105° C
Temperature resistance flexibar (acc.to single-line diagram)	up to 125° C	up to 125° C
Calculated power loss (Pv) incl. devices, wiring, busbars, etc.	\sim 235 W ($\pm 3\%$)	\leq 235 W
Rated current of the assembly (I_nA)	389.3 A	\leq 389.3 A *)
Rated current of the assembly of %	\sim 97.3 % of I_n	

Single-line diagram of the assembly with rated current \leq 400 A:



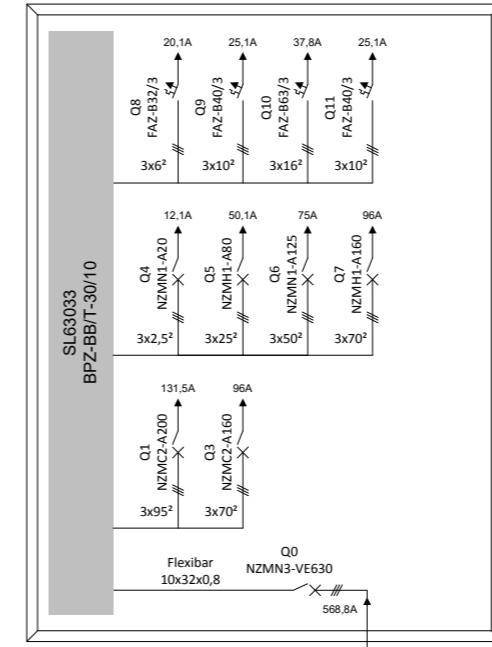
***) Table of rated currents of the assembly with main incomer part of NZMx3-A... / NZMx3-VE/AE... series:**

MCCB-Typ	Rated current (I_n)	Rated current of the assembly (I_nA)	% of I_n
NZMx3-A	250	200	80%
	320	256	
	400	320	
NZMx3-VE/AE...	250	250	100% (no derating necessary)
	400	389.3	97.3%

Temperature rise verification of a switchgear assembly with a single compartment and a rated current not exceeding 630 A according to IEC / EN 61439-1

	Verification by testing acc.to IEC/EN 61439-1 (sub-clause 10.10.2)	Derivation of ratings for similar variants acc.to IEC/EN 61439-1 (sub-clause 10.10.3)
Characteristics of the tested switchgear combination according to the manufacturer's instructions:	Requirements of switchgear assemblies, which are going to be verified in accordance with the tested assembly:	
Rated operational voltage (U_o)	415 VAC	up to 415 VAC
Rated frequency (f_o)	50 Hz	50 Hz / 60 Hz
Rated insulation voltage (U_i)	440 VAC	440 VAC
Pollution degree	3	3
Oversupply category	III	III
Rated impulse withstand voltage (U_{imp})	4 kV	4 kV
Type of enclosure	BPM-O-800/12	BP(M)-O, BP(M)-F
Degree of protection (outside) (installation level)	IP55 IP2XC	\leq IP55 IP2XC
Active ventilation	none	none
Type of assembly	Wall-mounted	Wall-mounted / stand-alone
Side-by-side arrangement	no	no
Dimensions of the enclosure (HxWxD)	1260x800x270 mm	\geq 1260x800x270 mm
Internal separation	none	none
Ambient temperature	35 °C	35 °C
Max. permissible temperature inside the enclosure	70 °C ($\Delta T = 35$ K)	70 °C ($\Delta T = 35$ K)
Main incomer (MCCB)	Typ NZMN3-VE630	Series NZMx3-A... / NZMx3-VE/AE... *)
Rated current (I_n)	630 A	up to 630 A
Type of outgoings (MCB/MCCB)	Series FAZ-Bxx/3 Series NZMx1-A..., NZMC2-A...	Series FAZ, FAZT, FAZ6, PLSM, PLS6, PLS4 CLS6, CLS4, PL6, PL7, PL9, PL10, EM, PXL, mMC Series NZMx1-A..., NZMx2-A... / NZMx2-VE/AE...
Number of outgoing circuits	10	\geq 10
Rated diversity factor (RDF)	acc.to IEC/EN 61439-2 table 101	acc.to IEC/EN 61439-2 table 101
Conductor cross-sections for rated currents	acc.to IEC/EN 61439-1 table 11	acc.to IEC/EN 61439-1 table 11
Temperature resistance cables (acc.to single-line diagram)	up to 105° C	up to 105° C
Temperature resistance flexibar (acc.to single-line diagram)	up to 125° C	up to 125° C
Calculated power loss (Pv) incl. devices, wiring, busbars, etc.	\sim 340 W ($\pm 3\%$)	\leq 340 W
Rated current of the assembly (I_nA)	568.8 A	\leq 568.8 A *)
Rated current of the assembly of %	\sim 90.3 % of I_n	

Single-line diagram of the assembly with rated current \leq 630 A:



***) Table of rated currents of the assembly with main incomer part of NZMx3-A... / NZMx3-VE/AE... series:**

MCCB-Typ	Rated current (I_n)	Rated current of the assembly (I_nA)	% of I_n
NZMx3-A	320	320	100% (no derating necessary)
	400	400	100% (no derating necessary)
	500	500	100% (no derating necessary)
NZMx3-VE/AE...	250	250	100% (no derating necessary)
	400	400	100% (no derating necessary)
630	568.8	90.30%	

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