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in commercial and
industrial applications



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The result is an unparalleled integration of PowerChain® solutions that optimise energy usage, reduce energy consumption and enhance the comfort and sustainability of your facility.

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- Commercial property**
- Petrochemicals**
- Data centres**
- Healthcare**
- Pharmaceuticals**
- Education**
- Water and waste water**
- Residential**
- Utilities**
- Manufacturing**
- Retail**
- Pulp and paper**
- Telecommunications**



A complete range of MCCB panelboards providing all the options you need from a straightforward panelboard to a comprehensive panelboard system. The range now offers a variety of incoming devices and a greater choice of outgoing ways to provide more flexibility and choice to the user.

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1.1

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 250A – outgoing device ratings up to 160A



Bottom Entry Incomer



Top Entry Incomer

Specification

- Panelboards to IEC61439-1&2. Form 2b
- Busbar system DEKRA certified 50kA Icc, Icw 30kA/1s, 25kA/3s
- IP42 construction
- Enclosure construction made of 1.5mm sheet metal thickness
- Paint color RAL 7035 Polyester powder coating
- MCCBs to IEC60947-2. kA ratings shown are Ics=Icu at 400V ac
- Switch disconnectors to IEC60947-3
- 100% neutral busbar
- Fully type tested at operating ambient temperature of 50°C

Features

- 4, 6, 8, 10, 12, 14 or 16 outgoing TP ways
- Outgoing devices; NZM1 /LZM1 16A–125A SP & 20A–160A TP
- Tin-plated busbars
- Incomer accessible with closed door
- Can be configured for incomer device at top or bottom of panelboard
- Removable top/bottom gland plates as standard
- Wide range of extension & metering boxes available

See page 21 for dimensions.

XPPN22508B



- Minimum ordering requirement: panelboard + incoming device + box terminal + outgoing devices + blanking plates
- Connection kit from incoming device to main bus bar included

Description	Associated incoming device	Current rating (A)	No. of ways	Eaton list number Bottom Incomer	Article number	Eaton list number Top Incomer	Article number
Incoming rating up to 250A, outgoing ratings up to 160A	NZM2/LZM2 MCCB or N2/LN2 switch disconnector	250	4	XPPN22504B	187645	XPPN22504T	187539
			6	XPPN22506B	187646	XPPN22506T	187540
			8	XPPN22508B	187647	XPPN22508T	187541
			10	XPPN22510B	187648	XPPN22510T	187542
			12	XPPN22512B	187649	XPPN22512T	187543
			14	XPPN22514B	187650	XPPN22514T	187544
			16	XPPN22516B	187651	XPPN22516T	187545

NZMC2-A250



MCCB incoming device (Mandatory to add box terminal accessory for incoming device to connect with busbar stack) (see page 5)

- 36kA or 50kA options
- Select appropriate incomer device from table below
- Maximum cable capacity 185mm²
- Adjustable trip. Thermal trip adjustment 0.8 to 1 x I_n, Magnetic trip adjustment 6 to 10 x I_n

Poles	Incoming device type	Current rating (A)	Eaton list number Short circuit rating 36kA	Article number	Eaton list number Short circuit rating 50kA	Article number
3-pole	NZM2	160	NZMC2-A160	271421	NZMN2-A160	259092
		200	NZMC2-A200	271422	NZMN2-A200	259093
		250	NZMC2-A250	271423	NZMN2-A250	259094
	LZM2	160	LZMC2-A160-I	111938	LZMN2-A160-I	174442
		200	LZMC2-A200-I	111939	LZMN2-A200-I	174443
		250	LZMC2-A250-I	111940	LZMN2-A250-I	174444

* For electronic trip unit please refer to MCCB catalog

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 250A – outgoing device ratings up to 160A

1.1

NZ-250



Switch disconnecter incoming device (Mandatory to add box terminal accessory for incoming device to connect with busbar stack) (see below)

- Select appropriate incomer device from table below
- Maximum cable capacity 185mm²

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	N2 Switch disconnecter	250	N2-250	266010
	LN2 Switch disconnecter	250	LN2-250-I	112004

NZM2-250-XKC



Box terminal for incoming device (to connect with busbar stack)

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole (1 set per incoming device)	NZM2/LZM2/N2/LN2	160	NZM2-160-XKC	262240
		250	NZM2-250-XKC	262244

NZMB1-1-AF63 and NZMB1-A160



Outgoing devices – NZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Single pole 25kA	Eaton list number Triple pole 25kA ^{1) 2)}	Article number
16	NZMB1-1-AF16	–	
20	NZMB1-1-AF20	NZMB1-A20	280987
25	NZMB1-1-AF25	NZMB1-A25	280988
32	NZMB1-1-AF32	NZMB1-A32	280989
40	NZMB1-1-AF40	NZMB1-A40	259075
50	NZMB1-1-AF50	NZMB1-A50	259076
63	NZMB1-1-AF63	NZMB1-A63	259077
80	NZMB1-1-AF80	NZMB1-A80	259078
100	NZMB1-1-AF100	NZMB1-A100	259079
125	NZMB1-1-AF125	NZMB1-A125	259080
160	–	NZMB1-A160	281230

¹⁾ 36kA triple pole also available, change 'B' to 'C' in list number, ie **NZMC1-A125**

²⁾ 50kA triple pole also available, change 'B' to 'N' in list number, ie **NZMN1-A125**

LZMB1-A160



Outgoing devices – LZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 25kA ^{1) 2)}	Article number
16	–	
20	LZMB1-A20-I	111848
25	LZMB1-A25-I	111849
32	LZMB1-A32-I	111850
40	LZMB1-A40-I	111851
50	LZMB1-A50-I	111852
63	LZMB1-A63-I	111853
80	LZMB1-A80-I	111854
100	LZMB1-A100-I	111855
125	LZMB1-A125-I	111856
160	LZMB1-A160-I	111857

¹⁾ 36kA triple pole also available, change 'B' to 'C' in list number, ie **LZMC1-A125-I**

²⁾ 50kA triple pole also available, change 'B' to 'N' in list number, ie **LZMN1-A125-I**

* For circuit breakers details please refer to MCCB catalog

1.1

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 250A – outgoing device ratings up to 160A

EPBN1BP1



Accessories

Description	Eaton list number	Article number
SP blanking module NZM1 frame (i.e. order 3 per TP way)	EPBN1BP1	167095
Terminal shroud for outgoing MCCB type NZM1 1P	NZM1-1-XKSA	152549
Terminal shroud for outgoing MCCB type NZM1 3P	NZM1-XKSA	260021
Shunt trip 208-250AC/DC for NZM1 (excl. 1P)	NZM1-XAL208-250AC/DC	259744
Shunt trip 208-250AC/DC for NZM2/N2	NZM2/3-XA208-250AC/DC	259763
Undervoltage release 208–240AC for NZM1 (excl. 1P)	NZM1-XUL208-240AC	259471
Undervoltage release 208–240AC for NZM2/N2	NZM2/3-XU208-240AC	259499

XPPN2EXT200M



Metering extension boxes – top/bottom mounted

Description	Eaton list number	Article number
200mm high with provision for: - 4 meters (72 x 72mm) - 3 indication lamps (Ø22.5mm) - 2 selectors switches (Ø22.5mm) (Meters/selectors/indication lamps not included)	XPPN2EXT200M	187569

XPPN2EXT200



Cable extension boxes - top/bottom mounted

Description	Eaton list number	Article number
200mm high	XPPN2EXT200	187572
400mm high	XPPN2EXT400	187575

XPPN2BAS200



Base extension kit - bottom mounted

Description	Eaton list number	Article number
200mm high	XPPN2BAS200	187578
400mm high	XPPN2BAS400	187581

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 250A – outgoing device ratings up to 160A

1.1

Detailed view of XPPN22508B-MCCB panel board 250A / 8-way (bottom entry)



Busbar stack with outgoing devices /
protective covers



Busbar stack without outgoing devices /
protective covers



Main incomer connection to busbar stack &
detailed view on neutral link

1.2

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 400A – outgoing device ratings up to 250A



Bottom Entry Incomer



Top Entry Incomer

Specification

- Panelboards to IEC61439-1&2. Form 2b
- Busbar system DEKRA certified 50kA lcc, lcw 50kA/1s, 35kA/3s
- IP42 construction
- Enclosure construction made of 1.5mm sheet metal thickness
- Paint color RAL7035 Polyester powder coating
- MCCBs to IEC60947-2. kA ratings shown are Ics=Icu at 400V ac
- Switch disconnectors to IEC60947-3
- 100% neutral busbar
- Fully type tested at operating ambient temperature of 50°C

Features

- 4, 6, 8, 10, 12, 14 or 16 outgoing TP ways
- Outgoing devices; these panelboards utilise two frame sizes of MCCB: NZM2/LZM2 160A–250A TP, and NZM1 SP 16A–125A or NZM1/LZM1 TP 20A–160A
- Tin-plated busbars
- Incomer accessible with closed door
- Can be configured for incomer device at top or bottom of panelboard
- Removable top/bottom gland plates as standard
- Wide range of extension & metering boxes available

See page 21 for dimensions.

XPPN34010B



- Minimum ordering requirement: panelboard + incoming device + outgoing devices + blanking plates
- Connection kit from incoming device to main bus bar included

Description	Associated incoming device	Current rating (A)	No. of outgoing ways	Eaton list number Bottom Incomer	Article number	Eaton list number Top Incomer	Article number
Incoming rating up to 400A, outgoing ratings up to 250A	NZM3/LZM3 MCCB or N3/LN3 Switch Disconnector or direct lugs connection	400	4 (2 x 250A + 2 x 160A)	XPPN34004B	187652	XPPN34004T	187546
			6 (2 x 250A + 4 x 160A)	XPPN34006B	187653	XPPN34006T	187547
			8 (2 x 250A + 6 x 160A)	XPPN34008B	187654	XPPN34008T	187548
			10 (2 x 250A + 8 x 160A)	XPPN34010B	187655	XPPN34010T	187549
			12 (2 x 250A + 10 x 160A)	XPPN34012B	187656	XPPN34012T	187550
			14 (2 x 250A + 12 x 160A)	XPPN34014B	187657	XPPN34014T	187551
			16 (2 x 250A + 14 x 160A)	XPPN34016B	187658	XPPN34016T	187552

NZMN3-A400



MCCB incoming device

- 50kA
- Select appropriate incomer device from table below
- Maximum cable capacity 240mm²
- Adjustable trip. Thermal trip adjustment 0.8 to 1 x I_n, Magnetic trip adjustment 6 to 10 x I_n

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	NZM3	320	NZMN3-A320	109669
		400	NZMN3-A400	109670
		400	NZMN3-VE400	259132
	LZM3	320	LZMN3-A320-I	111966
		400	LZMN3-A400-I	111967
		400	LZMN3-AE400-I	111970

N3-400



Switch disconnecter (non-automatic) incoming device

- Select appropriate incomer device from table below
- Maximum cable capacity 240mm²

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	N3 switch disconnecter	400	N3-400	266019
	LN3 switch disconnecter	400	LN3-400-I	112008

NZMC2-A250



Outgoing devices – NZM2 frame MCCBs (Mandatory to add box terminal accessory for outgoing device to connect with busbar stack) (see below)

- Maximum cable capacity 185mm²
- Adjustable trip. Thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 36kA	Article number	Eaton list number Triple pole 50kA	Article number
160	NZMC2-A160	271421	NZMN2-A160	259092
200	NZMC2-A200	271422	NZMN2-A200	259093
250	NZMC2-A250	271423	NZMN2-A250	259094

LZMC2-A250



Outgoing devices – LZM2 frame MCCBs (Mandatory to add box terminal accessory for outgoing device to connect with busbar stack) (see below)

- Maximum cable capacity 185mm²
- Adjustable trip. Thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 36kA	Article number	Eaton list number Triple pole 50kA	Article number
160	LZMC2-A160-I	111938	LZMN2-A160-I	174442
200	LZMC2-A200-I	111939	LZMN2-A200-I	174443
250	LZMC2-A250-I	111940	LZMN2-A250-I	174444

NZM2-250-XKC



Box terminal for outgoing device (to connect with busbar stack)

Poles	Outgoing device type	Current rating (A)	Eaton list number	Article number
3-pole (1 set per outgoing device)	NZM2/LZM2	160	NZM2-160-XKC	262240
		250	NZM2-250-XKC	262244

NZMB1-1-AF63 and NZMB1-A160



Outgoing devices – NZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Single pole 25kA	Eaton list number Triple pole 25kA	Article number	Eaton list number Triple pole 36kA ¹⁾	Article number
16	NZMB1-1-AF16	–	–	–	–
20	NZMB1-1-AF20	NZMB1-A20	280987	NZMC1-A20	283293
25	NZMB1-1-AF25	NZMB1-A25	280988	NZMC1-A25	283294
32	NZMB1-1-AF32	NZMB1-A32	280989	NZMC1-A32	283295
40	NZMB1-1-AF40	NZMB1-A40	259075	NZMC1-A40	271392
50	NZMB1-1-AF50	NZMB1-A50	259076	NZMC1-A50	271393
63	NZMB1-1-AF63	NZMB1-A63	259077	NZMC1-A63	271394
80	NZMB1-1-AF80	NZMB1-A80	259078	NZMC1-A80	271395
100	NZMB1-1-AF100	NZMB1-A100	259079	NZMC1-A100	271396
125	NZMB1-1-AF125	NZMB1-A125	259080	NZMC1-A125	271397
160	–	NZMB1-A160	281230	NZMC1-A160	283296

¹⁾ 50kA triple pole also available, change 'C' to 'N' in list number, ie **NZMN1-A125**

* For circuit breakers details please refer to MCCB catalog

1.2

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 400A – outgoing device ratings up to 250A

LZMB1-A160



Outgoing devices – LZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 25kA	Article number	Eaton list number Triple pole 36kA ¹⁾	Article number
16	–		–	
20	LZMB1-A20-I	111848	LZMC1-A20-I	111888
25	LZMB1-A25-I	111849	LZMC1-A25-I	111889
32	LZMB1-A32-I	111850	LZMC1-A32-I	111890
40	LZMB1-A40-I	111851	LZMC1-A40-I	111891
50	LZMB1-A50-I	111852	LZMC1-A50-I	111892
63	LZMB1-A63-I	111853	LZMC1-A63-I	111893
80	LZMB1-A80-I	111854	LZMC1-A80-I	111894
100	LZMB1-A100-I	111855	LZMC1-A100-I	111895
125	LZMB1-A125-I	111856	LZMC1-A125-I	111896
160	LZMB1-A160-I	111857	LZMC1-A160-I	111897

¹⁾ 50kA triple pole also available, change 'C' to 'N' in list number, ie LZMN1-A125-I

EPBN1BP1



Accessories

Description	Eaton list number	Article number
SP blanking module NZM1 frame (i.e. order 3 per TP way)	EPBN1BP1	167095
TP blanking module NZM2 frame	EPBN2BP3	167096
Terminal shroud for outgoing MCCB type NZM1 1P	NZM1-1-XKSA	152549
Terminal shroud for outgoing MCCB type NZM1 3P	NZM1-XKSA	260021
Terminal shroud for outgoing MCCB type NZM2 3P	NZM2-XKSA	260038
Shunt trip 208–250AC/DC for NZM1 (excl. 1P)	NZM1-XAL208-250AC/DC	259744
Shunt trip 208–250AC/DC for NZM2/N2	NZM2/3-XA208-250AC/DC	259763
Shunt trip 208–250AC/DC for NZM3/N3	NZM2/3-XA208-250AC/DC	259763
Undervoltage release 208–240AC for NZM1 (excl. 1P)	NZM1-XUL208-240AC	259471
Undervoltage release 208–240AC for NZM2/N2	NZM2/3-XU208-240AC	259499
Undervoltage release 208–240AC for NZM3/N3	NZM2/3-XU208-240AC	259499
Tunnel terminal for multicore cable connection without ferrule/cable lug to incoming device 3-pole (1 set per incoming device)	NZM3-XKA2	271461

NZM3-XKA2



XPPN3EXT200M



Metering extension boxes - top/bottom mounted

Description	Eaton list number	Article number
200mm high with provision for: - 4 meters (72 x 72mm) - 3 indication lamps (Ø22.5mm) - 2 selectors switches (Ø22.5mm) (Meters/selectors/indication lamps not included)	XPPN3EXT200M	187570

XPPN3EXT200



Cable extension boxes - top/bottom mounted

Description	Eaton list number	Article number
200mm high	XPPN3EXT200	187573
400mm high	XPPN3EXT400	187576

XPPN3BAS200

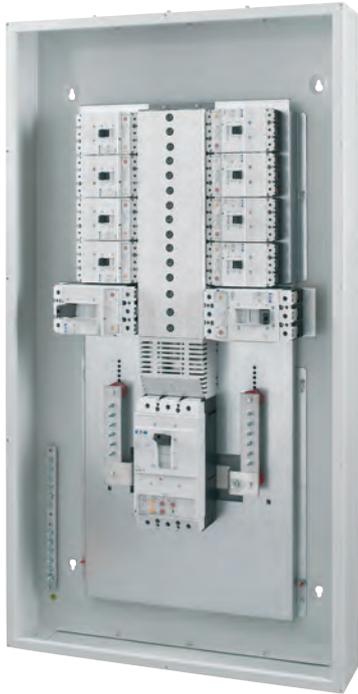


Base extension kit - bottom mounted

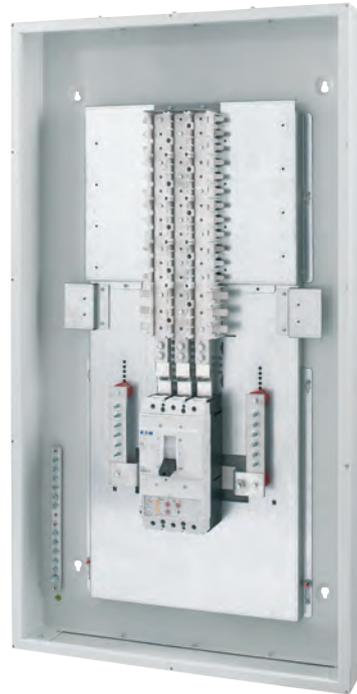
Description	Eaton list number	Article number
200mm high	XPPN3BAS200	187579
400mm high	XPPN3BAS400	187582

* For circuit breakers details please refer to MCCB catalog

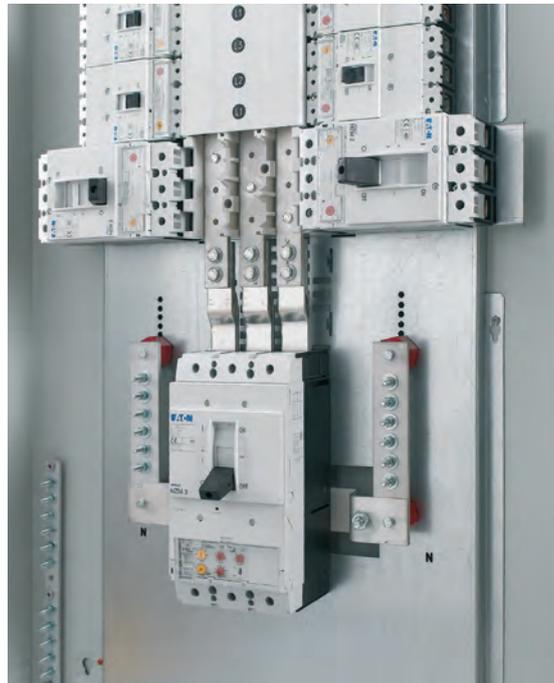
Detailed view of XPPN34010B-MCCB panel board 400A / 10-way (bottom entry)



Busbar stack with outgoing devices /
protective covers



Busbar stack without outgoing devices /
protective covers



Main incomer connection to busbar stack &
detailed view on neutral link

1.3

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 630A – outgoing device ratings up to 250A



Bottom Entry Incomer



Top Entry Incomer

Specification

- Panelboards to IEC61439-2. Form 2b
- Busbar system DEKRA certified 50kA Icc, Icw 50kA/1s, 35kA/3s
- IP42 construction
- Enclosure construction made of 1.5mm sheet metal thickness
- Paint color RAL7035 Polyester Powder coating
- Outgoing MCCBs to IEC60947-2. kA ratings shown are Ics=Icu at 400V ac
- Incoming MCCB to IEC60947-2 Icu 50kA, Ics 37kA
- Switch disconnectors to IEC60947-3
- 100% neutral busbar
- Fully type tested at operating ambient temperature of 50°C

Features

- 6, 8, 10, 12, 14 or 16 outgoing TP ways
- Outgoing devices; these panelboards utilise two frame sizes of MCCB: NZM2/LZM2 160A–250A TP, and NZM1 SP 16A–125A or NZM1/LZM1 TP 20A–160A
- Tin-plated busbars
- Incomer accessible with closed door
- Can be configured for incomer device at top or bottom of panelboard
- Removable top/bottom gland plates as standard
- Wide range of extension & metering boxes available

See page 21 for dimensions.

XPPN46312B



- Minimum ordering requirement: panelboard + incoming device + outgoing devices + blanking plates
- Connection kit from incoming device to main bus bar included.

Description	Associated incoming device	Current rating (A)	No. of outgoing ways	Eaton list number Bottom Incomer	Article number	Eaton list number Top Incomer	Article number
Incoming rating 630A, outgoing ratings up to 250A	NZM4 MCCB or direct lugs connection	630	6 (2 x 250A + 4 x 160A)	XPPN46306B	187666	XPPN46306T	187560
			8 (4 x 250A + 4 x 160A)	XPPN46308B	187667	XPPN46308T	187561
			10 (4 x 250A + 6 x 160A)	XPPN46310B	187668	XPPN46310T	187562
			12 (4 x 250A + 8 x 160A)	XPPN46312B	187669	XPPN46312T	187563
			14 (4 x 250A + 10 x 160A)	XPPN46314B	187534	XPPN46314T	187564
			16 (4 x 250A + 12 x 160A)	XPPN46316B	187535	XPPN46316T	187565

NZMN4-AE630



MCCB incoming device

- 50kA
- Select appropriate incomer device from table below
- Maximum cable capacity 2 x 240mm²
- Adjustable trip. Thermal trip adjustment 0.5 to 1 x In, Magnetic trip adjustment 2 to 12 x In

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	NZM4 MCCB	630	NZMN4-AE630	265758
			NZMN4-VE630	265768

N4-800



Switch disconnector (non-automatic) incoming device

- Select appropriate incomer device from table below
- Maximum cable capacity 2 x 240mm²

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	N4 Switch disconnector	800	N4-800	266025

NZMN2-A250



Outgoing devices - NZM2 frame MCCBs (Mandatory to add box terminal accessory for outgoing device to connect with busbar stack) (see below)

- Maximum cable capacity 185mm²
- Adjustable trip. Thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 50kA	Article number
160	NZMN2-A160	259092
200	NZMN2-A200	259093
250	NZMN2-A250	259094

LZMN2-A250



Outgoing devices – LZM2 frame MCCBs (Mandatory to add box terminal accessory for outgoing device to connect with busbar stack) (see below)

- Maximum cable capacity 185mm²
- Adjustable trip. Thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 50kA	Article number
160	LZMN2-A160-I	174442
200	LZMN2-A200-I	174443
250	LZMN2-A250-I	174444

NZM2-250-XKC



Box terminal for outgoing device (to connect with busbar stack)

Poles	Outgoing device type	Current rating (A)	Eaton list number	Article number
3-pole (1 set per outgoing device)	NZM2/LZM2	160	NZM2-160-XKC	262240
		250	NZM2-250-XKC	262244

NZMB1-1-AF63 and NZMB1-A160



Outgoing devices - NZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Single pole 25kA	Eaton list number Triple pole 25kA	Article number	Eaton list number Triple pole 36kA ¹⁾	Article number
16	NZMB1-1-AF16	–	–	–	–
20	NZMB1-1-AF20	NZMB1-A20	280987	NZMC1-A20	283293
25	NZMB1-1-AF25	NZMB1-A25	280988	NZMC1-A25	283294
32	NZMB1-1-AF32	NZMB1-A32	280989	NZMC1-A32	283295
40	NZMB1-1-AF40	NZMB1-A40	259075	NZMC1-A40	271392
50	NZMB1-1-AF50	NZMB1-A50	259076	NZMC1-A50	271393
63	NZMB1-1-AF63	NZMB1-A63	259077	NZMC1-A63	271394
80	NZMB1-1-AF80	NZMB1-A80	259078	NZMC1-A80	271395
100	NZMB1-1-AF100	NZMB1-A100	259079	NZMC1-A100	271396
125	NZMB1-1-AF125	NZMB1-A125	259080	NZMC1-A125	271397
160	–	NZMB1-A160	281230	NZMC1-A160	283296

¹⁾ 50kA triple pole also available, change 'C' to 'N' in list number, ie **NZMN1-A125**

* For circuit breakers details please refer to MCCB catalog

1.3

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 630A – outgoing device ratings up to 250A

LZMB1-A160



Outgoing devices – LZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 25kA	Article number	Eaton list number Triple pole 36kA ¹⁾	Article number
16	–		–	
20	LZMB1-A20-I	111848	LZMC1-A20-I	111888
25	LZMB1-A25-I	111849	LZMC1-A25-I	111889
32	LZMB1-A32-I	111850	LZMC1-A32-I	111890
40	LZMB1-A40-I	111851	LZMC1-A40-I	111891
50	LZMB1-A50-I	111852	LZMC1-A50-I	111892
63	LZMB1-A63-I	111853	LZMC1-A63-I	111893
80	LZMB1-A80-I	111854	LZMC1-A80-I	111894
100	LZMB1-A100-I	111855	LZMC1-A100-I	111895
125	LZMB1-A125-I	111856	LZMC1-A125-I	111896
160	LZMB1-A160-I	111857	LZMC1-A160-I	111897

¹⁾ 50kA triple pole also available, change 'C' to 'N' in list number, ie LZMN1-A125-I

EPBN1BP1



Accessories

Description	Eaton list number	Article number
SP blanking module NZM1 frame (i.e. order 3 per TP way)	EPBN1BP1	167095
TP blanking module NZM2 frame	EPBN2BP3	167096
Terminal shroud for outgoing MCCB type NZM1 1P	NZM1-1-XKSA	152549
Terminal shroud for outgoing MCCB type NZM1 3P	NZM1-XKSA	260021
Terminal shroud for outgoing MCCB type NZM2 3P	NZM2-XKSA	260038
Shunt trip 208–250AC/DC for NZM1 (excl. 1P)	NZM1-XAL208-250AC/DC	259744
Shunt trip 208–250AC/DC for NZM2/N2	NZM2/3-XA208-250AC/DC	259763
Shunt trip 110V–240VAC for NZM4/N4	NZM4-XA208-250AC/DC	266451
Undervoltage release 208–240AC for NZM1 (excl. 1P)	NZM1-XUL208-240AC	259471
Undervoltage release 208–240AC for NZM2/N2	NZM2/3-XU208-240AC	259499
Undervoltage release 208-240AC for NZM4/N4	NZM4-XU208-240AC	266193
Tunnel terminal for multicore cable connection without ferrule to incoming device 3-pole (1 set per incoming device)	NZM4-XKA	266836
Module plate for cable lug connection to incoming device 3-pole (1 set per incoming device)	NZM4-XKM1	266814

NZM4-XKA



NZM4-XKM1



XPPN4EXT200M



Metering extension boxes - top/bottom mounted

Description	Eaton list number	Article number
200mm high with provision for: - 4 meters (72 x 72mm) - 3 indication lamps (Ø22.5mm) - 2 selectors switches (Ø22.5mm) (Meters/selectors/indication lamps not included)	XPPN4EXT200M	187571

XPPN4EXT200



Cable extension boxes - top/bottom mounted

Description	Eaton list number	Article number
200mm high	XPPN4EXT200	187574
400mm high	XPPN4EXT400	187577

XPPN4BAS200



Base extension kit - bottom mounted

Description	Eaton list number	Article number
200mm high	XPPN4BAS200	187580
400mm high	XPPN4BAS400	187583

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 630A – outgoing device ratings up to 250A

1.3

Detailed view of XPPN46312B-MCCB panel board 630A / 12-way (bottom entry)



Door closed



Door opened



Internal view of busbar stack with outgoing devices / protective covers

1.4

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 800A – outgoing device ratings up to 250A



Bottom Entry Incomer



Top Entry Incomer

Specification

- Panelboards to IEC61439-2. Form 2b
- Busbar system DEKRA certified 50kA lcc, lcu 50kA/1s, 35kA/3s
- IP42 construction
- Enclosure construction made of 1.5mm sheet metal thickness
- Paint color RAL7035 Polyester Powder coating
- Outgoing MCCBs to IEC60947-2. kA ratings shown are lcs=lcu at 400V ac
- Incoming MCCB to IEC60947-2 lcu 50kA, lcs 37kA
- Switch Disconnectors to IEC60947-3
- 100% neutral busbar
- Fully type tested at operating ambient temperature of 50°C

Features

- 8, 12 or 18 outgoing TP ways
- Outgoing devices; these panelboards utilise two frame sizes of MCCB: NZM2/LZM2 160A –250A TP, and NZM1 SP 16A–125A or NZM1/LZM1 TP 20A–160A
- Tin-plated busbars
- Incomer accessible with closed door
- Can be configured for incomer device at top or bottom of panelboard
- Removable top/bottom gland plates as standard
- Wide range of extension & metering boxes available

See page 21 for dimensions.

XPPN48008B



- Minimum ordering requirement: panelboard + incoming device + outgoing devices + blanking plates
- Connection kit from incoming device to main bus bar included.

Description	Associated incoming device	Current rating (A)	No. of outgoing ways	Eaton list number Bottom Incomer	Article number	Eaton list number Top Incomer	Article number
Incoming rating 800A, outgoing ratings up to 250A	NZM4 MCCB	800	8 (4 x 250A + 4 x 160A)	XPPN48008B	187536	XPPN48008T	187566
			12 (4 x 250A + 8 x 160A)	XPPN48012B	187537	XPPN48012T	187567
			18 (4 x 250A + 14 x 160A)	XPPN48018B	187538	XPPN48018T	187568

NZMH4-AE800



MCCB incoming device

- 50kA
- Select appropriate incomer device from table below
- Maximum cable capacity 2 x 240mm²
- Adjustable trip. Thermal trip adjustment 0.5 to 1 x I_n, Magnetic trip adjustment 2 to 12 x I_n

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	NZM4 MCCB	800	NZMH4-AE800	265764
			NZMH4-VE800	265774

N4-800



Switch disconnector (non-automatic) incoming device

- Select appropriate incomer device from table below
- Maximum cable capacity 2 x 240mm²

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	N4 Switch disconnector	800	N4-800	266025

NZMN2-A250



Outgoing devices - NZM2 frame MCCBs (Mandatory to add box terminal accessory for outgoing device to connect with busbar stack) (see below)

- Maximum cable capacity 185mm²
- Adjustable trip. Thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 50kA	Article number
160	NZMN2-A160	259092
200	NZMN2-A200	259093
250	NZMN2-A250	259094

LZMN2-A250



Outgoing devices – LZM2 frame MCCBs (Mandatory to add box terminal accessory for outgoing device to connect with busbar stack) (see below)

- Maximum cable capacity 185mm²
- Adjustable trip. Thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 50kA	Article number
160	LZMN2-A160-I	174442
200	LZMN2-A200-I	174443
250	LZMN2-A250-I	174444

NZM2-250-XKC



Box terminal for outgoing device (to connect with busbar stack)

Poles	Outgoing device type	Current rating (A)	Eaton list number	Article number
3-pole (1 set per outgoing device)	NZM2/LZM2	160	NZM2-160-XKC	262240
		250	NZM2-250-XKC	262244

NZMB1-1-AF63 and NZMB1-A160



Outgoing devices - NZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Single pole 25kA	Eaton list number Triple pole 25kA	Article number	Eaton list number Triple pole 36kA ¹⁾	Article number
16	NZMB1-1-AF16	–	–	–	–
20	NZMB1-1-AF20	NZMB1-A20	280987	NZMC1-A20	283293
25	NZMB1-1-AF25	NZMB1-A25	280988	NZMC1-A25	283294
32	NZMB1-1-AF32	NZMB1-A32	280989	NZMC1-A32	283295
40	NZMB1-1-AF40	NZMB1-A40	259075	NZMC1-A40	271392
50	NZMB1-1-AF50	NZMB1-A50	259076	NZMC1-A50	271393
63	NZMB1-1-AF63	NZMB1-A63	259077	NZMC1-A63	271394
80	NZMB1-1-AF80	NZMB1-A80	259078	NZMC1-A80	271395
100	NZMB1-1-AF100	NZMB1-A100	259079	NZMC1-A100	271396
125	NZMB1-1-AF125	NZMB1-A125	259080	NZMC1-A125	271397
160	–	NZMB1-A160	281230	NZMC1-A160	283296

¹⁾50kA triple pole also available, change 'C' to 'N' in list number, ie **NZMN1-A125**

* For circuit breakers details please refer to MCCB catalog

1.4

xPower Plus MCCB panelboards and associated devices

Incoming device ratings up to 800A – outgoing device ratings up to 250A

LZMB1-A160



Outgoing devices – LZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating (A)	Eaton list number Triple pole 25kA	Article number	Eaton list number Triple pole 36kA ¹⁾	Article number
16	–	–	–	–
20	LZMB1-A20-I	111848	LZMC1-A20-I	111888
25	LZMB1-A25-I	111849	LZMC1-A25-I	111889
32	LZMB1-A32-I	111850	LZMC1-A32-I	111890
40	LZMB1-A40-I	111851	LZMC1-A40-I	111891
50	LZMB1-A50-I	111852	LZMC1-A50-I	111892
63	LZMB1-A63-I	111853	LZMC1-A63-I	111893
80	LZMB1-A80-I	111854	LZMC1-A80-I	111894
100	LZMB1-A100-I	111855	LZMC1-A100-I	111895
125	LZMB1-A125-I	111856	LZMC1-A125-I	111896
160	LZMB1-A160-I	111857	LZMC1-A160-I	111897

¹⁾ 50kA triple pole also available, change 'C' to 'N' in list number, ie LZMN1-A125-I

EPBN1BP1



Accessories

Description	Eaton list number	Article number
SP blanking module NZM1 frame (i.e. order 3 per TP way)	EPBN1BP1	167095
TP blanking module NZM2 frame	EPBN2BP3	167096
Terminal shroud for outgoing MCCB type NZM1 1P	NZM1-1-XKSA	152549
Terminal shroud for outgoing MCCB type NZM1 3P	NZM1-XKSA	260021
Terminal shroud for outgoing MCCB type NZM2 3P	NZM2-XKSA	260038
Shunt trip 208–250AC/DC for NZM1 (excl. 1P)	NZM1-XAL208-250AC/DC	259744
Shunt trip 208–250AC/DC for NZM2/N2	NZM2/3-XA208-250AC/DC	259763
Shunt trip 110V–240VAC for NZM4/N4	NZM4-XA208-250AC/DC	266451
Undervoltage release 208–240AC for NZM1 (excl. 1P)	NZM1-XUL208-240AC	259471
Undervoltage release 208–240AC for NZM2/N2	NZM2/3-XU208-240AC	259499
Undervoltage release 208-240AC for NZM4/N4	NZM4-XU208-240AC	266193
Tunnel terminal for multicore cable connection without ferrule to incoming device 3-pole (1 set per incoming device)	NZM4-XKA	266836
Module plate for cable lug connection to incoming device 3-pole (1 set per incoming device)	NZM4-XKM1	266814

XPPN4EXT200M



Metering extension boxes - top/bottom mounted

Description	Eaton list number	Article number
200mm high with provision for: - 4 meters (72 x 72mm) - 3 indication lamps (Ø22.5mm) - 2 selectors switches (Ø22.5mm) (Meters/selectors/indication lamps not included)	XPPN4EXT200M	187571

XPPN4EXT200



Cable extension boxes - top/bottom mounted

Description	Eaton list number	Article number
200mm high	XPPN4EXT200	187574
400mm high	XPPN4EXT400	187577

XPPN4BAS200



Base extension kit - bottom mounted

Description	Eaton list number	Article number
200mm high	XPPN4BAS200	187580
400mm high	XPPN4BAS400	187583

Detailed view of XPPN48008B-MCCB panel board 800A / 8-way (bottom entry)



Door closed



Door opened



Internal view of busbar stack with outgoing devices / protective covers

1.5 Technical data

1.5	PANELBOARD DIMENSIONAL DRAWINGS	21
	250A PANELBOARD DIMENSIONAL DRAWINGS (Bottom / Top Entry)	22
	400A PANELBOARD DIMENSIONAL DRAWINGS (Bottom / Top Entry)	23
	630A PANELBOARD DIMENSIONAL DRAWINGS (Bottom / Top Entry)	24
	800A PANELBOARD DIMENSIONAL DRAWINGS (Bottom / Top Entry)	25
	METERING EXTENSION BOX, EXTENSION BOX & BASE EXTENSION KIT DIMENSIONAL DRAWINGS	26

Panelboard dimensions (*)

Rating (A)	Number of ways	Panelboard Bottom Entry	Panelboard Top Entry	Dimensions (mm)			
				A	B	C	D
250	4	XPPN22504B	XPPN22504T	950	650	173	664
	6	XPPN22506B	XPPN22506T	1040	650	173	754
	8	XPPN22508B	XPPN22508T	1130	650	173	844
	10	XPPN22510B	XPPN22510T	1220	650	173	934
	12	XPPN22512B	XPPN22512T	1315	650	173	1029
	14	XPPN22514B	XPPN22514T	1410	650	173	1124
	16	XPPN22516B	XPPN22516T	1500	650	173	1214
400	4	XPPN34004B	XPPN34004T	1100	750	203	814
	6	XPPN34006B	XPPN34006T	1190	750	203	904
	8	XPPN34008B	XPPN34008T	1280	750	203	994
	10	XPPN34010B	XPPN34010T	1370	750	203	1084
	12	XPPN34012B	XPPN34012T	1465	750	203	1179
	14	XPPN34014B	XPPN34014T	1560	750	203	1274
	16	XPPN34016B	XPPN34016T	1650	750	203	1364
630	6	XPPN46306B	XPPN46306T	1445	850	205	1159
	8	XPPN46308B	XPPN46308T	1555	850	205	1269
	10	XPPN46310B	XPPN46310T	1645	850	205	1359
	12	XPPN46312B	XPPN46312T	1740	850	205	1454
	14	XPPN46314B	XPPN46314T	1835	850	205	1549
800	8	XPPN48008B	XPPN48008T	1640	850	205	1354
	12	XPPN48012B	XPPN48012T	1820	850	205	1534
	18	XPPN48018B	XPPN48018T	2090	850	205	1804

(*) For the details of dimensions (A,B,C,D) refer to pages 22 to 25

Extension boxes dimensions ()**

Description	Eaton list number	Dimensions (mm)							
		A	B	C	D	E	F	G	H
Meter Extension box	XPPN2EXT200M	200	650	126	526	72	67	58	194.5
	XPPN3EXT200M	200	750	156	626	102	117	108	244
	XPPN4EXT200M	200	850	174	726	102	167	158	294.5
Cable Extension box	XPPN2EXT200	200	650	126	526	72	-	-	-
	XPPN3EXT200	200	750	156	626	102	-	-	-
	XPPN4EXT200	200	850	174	726	102	-	-	-
	XPPN2EXT400	400	650	126	526	72	-	-	-
	XPPN3EXT400	400	750	156	626	102	-	-	-
	XPPN4EXT400	400	850	174	726	102	-	-	-
Base Extension Kit	XPPN2BAS200	200	650	126	526	76	-	-	-
	XPPN3BAS200	200	750	156	626	106	-	-	-
	XPPN4BAS200	200	850	174	726	124	-	-	-
	XPPN2BAS400	400	650	126	526	76	-	-	-
	XPPN3BAS400	400	750	156	626	106	-	-	-
	XPPN4BAS400	400	850	174	726	124	-	-	-

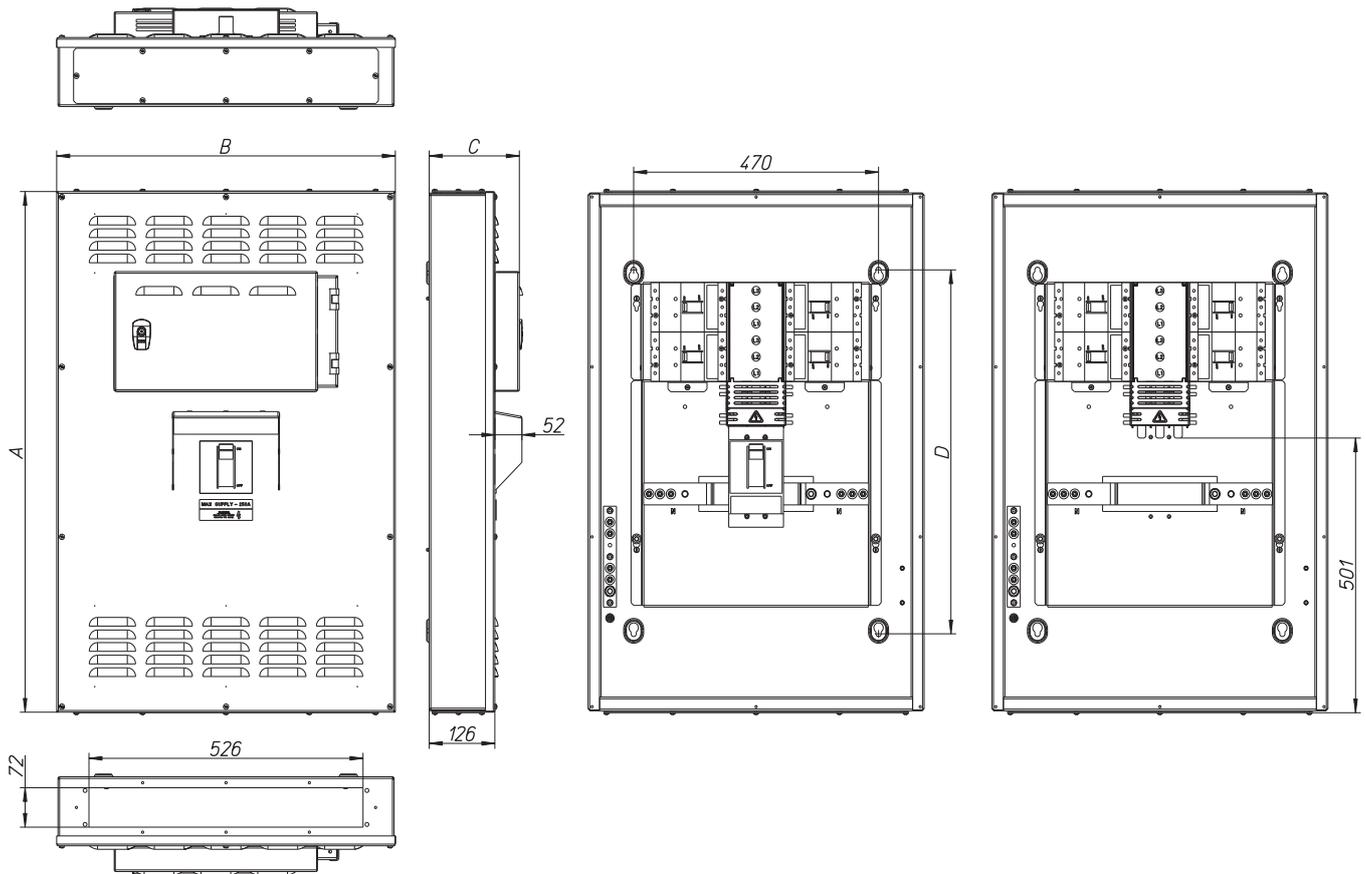
(**) For the details of dimensions (A,B,C,D,E,F,G,H) refer to page 26

1.5

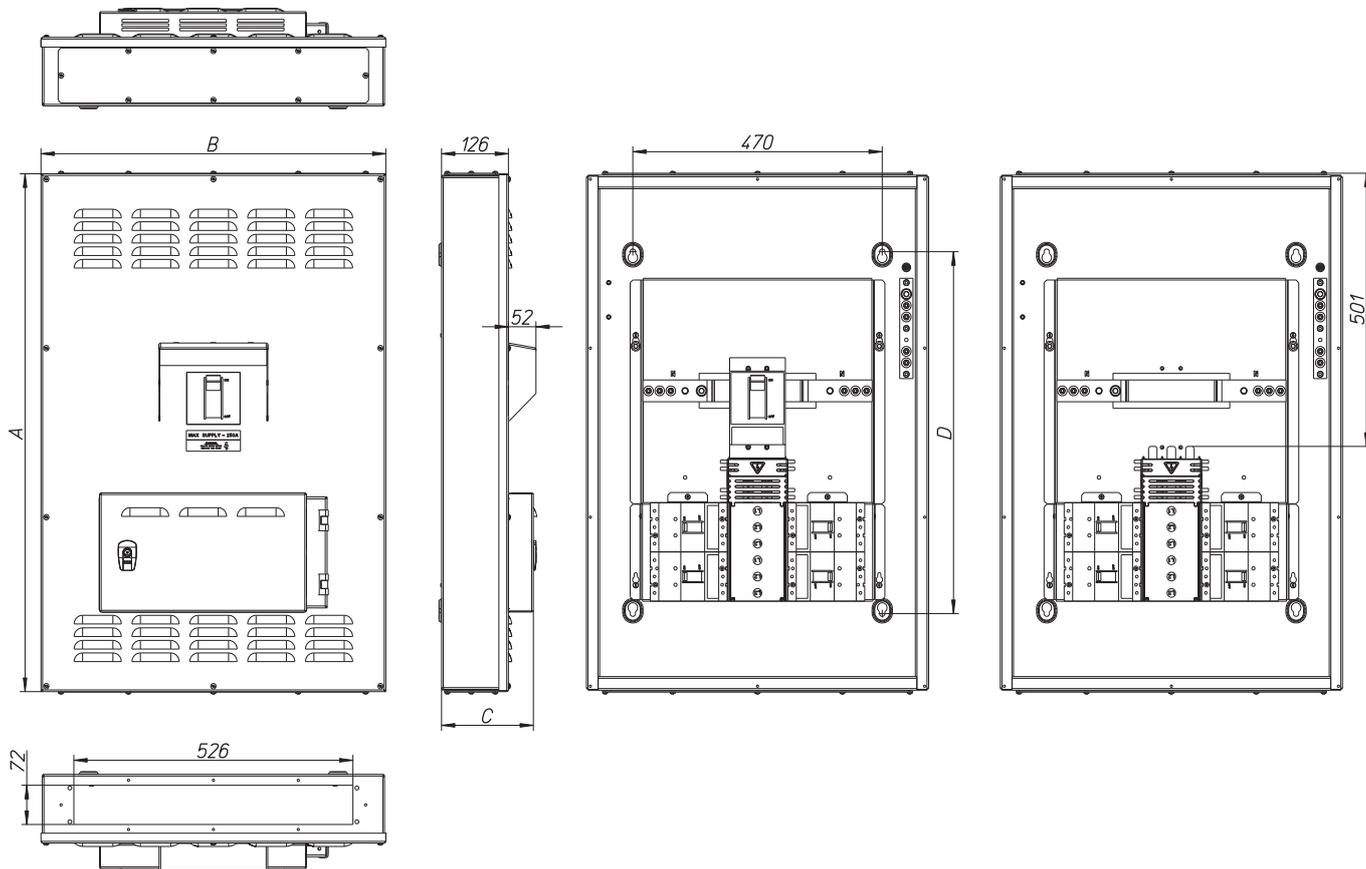
Technical data

250A Panelboard dimensional drawings (Bottom/Top Entry)

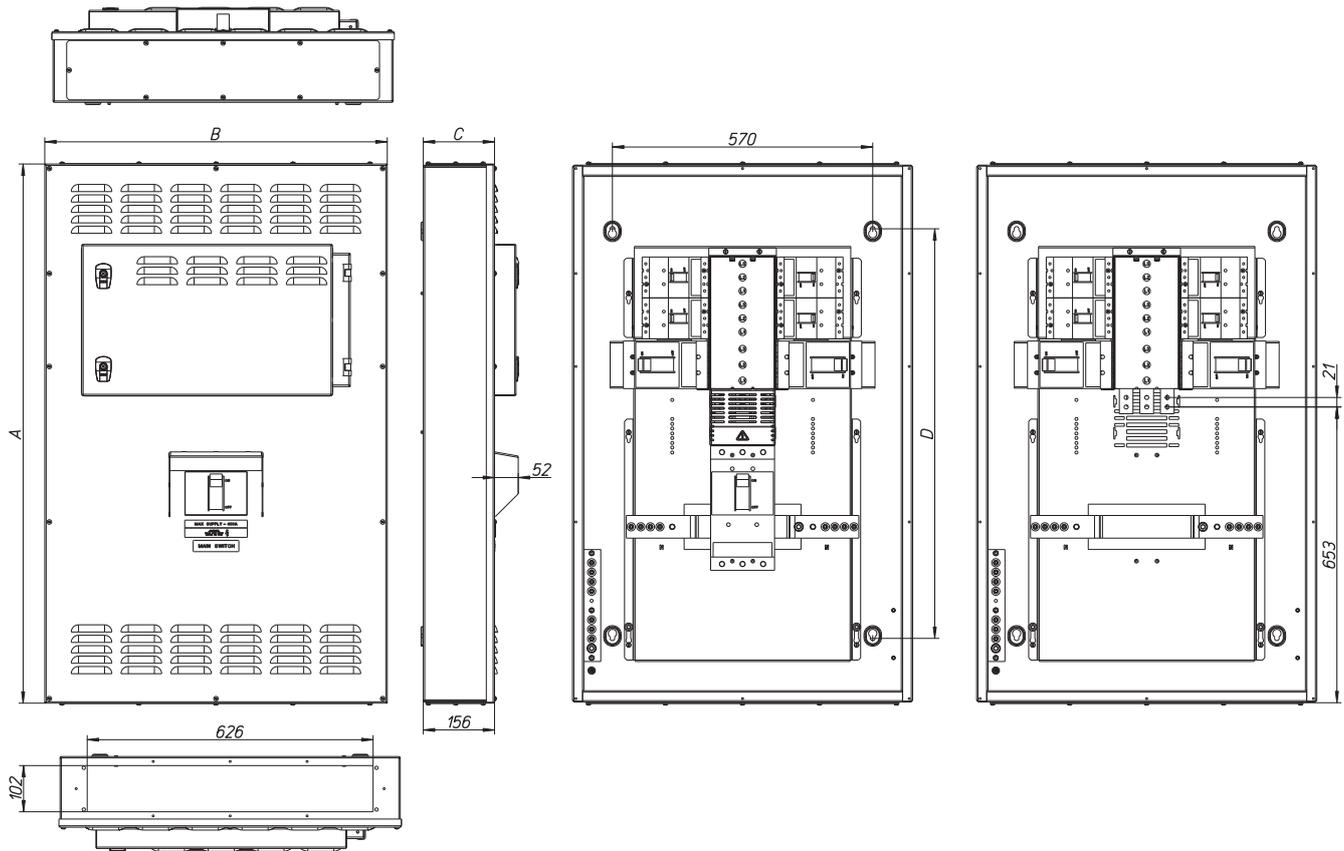
Bottom entry



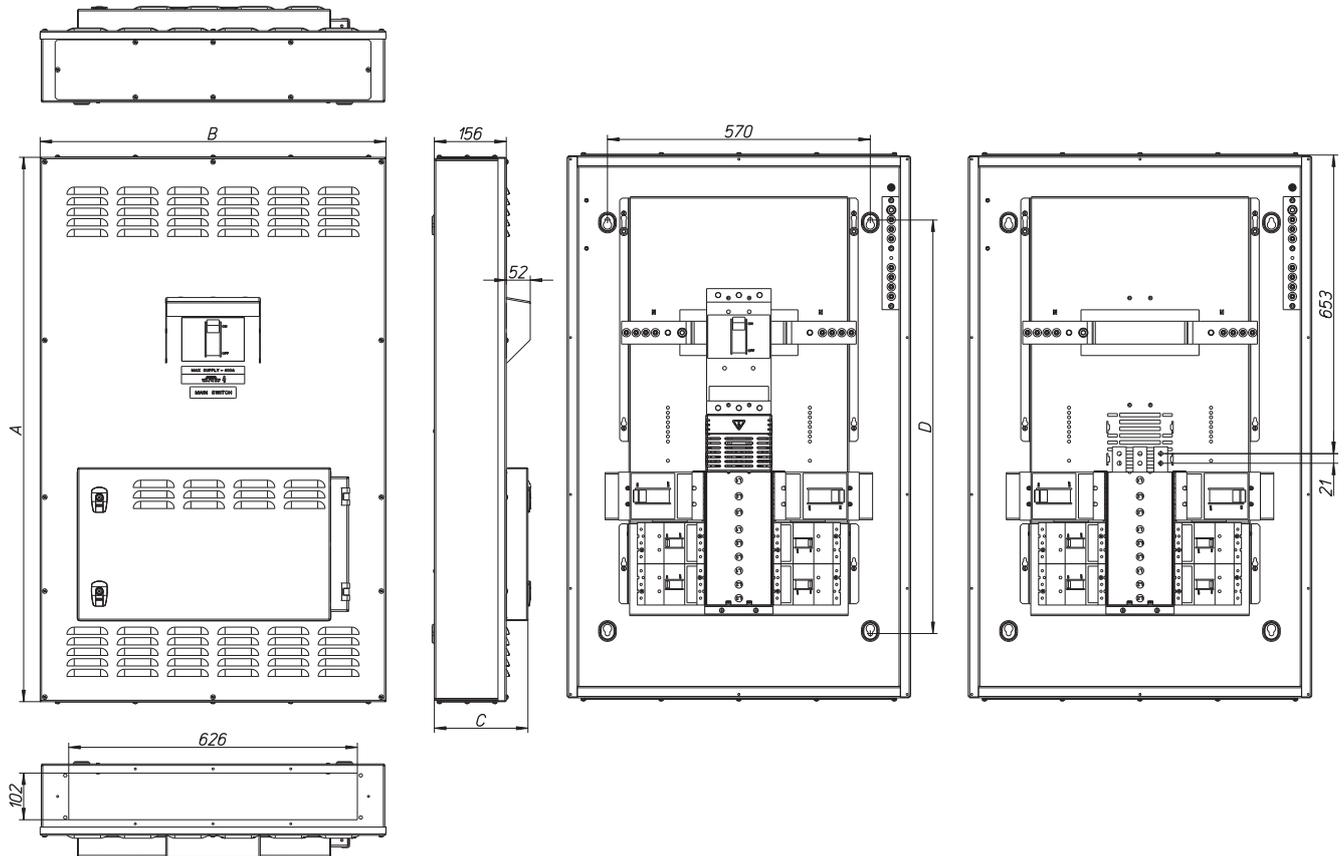
Top entry



Bottom entry



Top entry

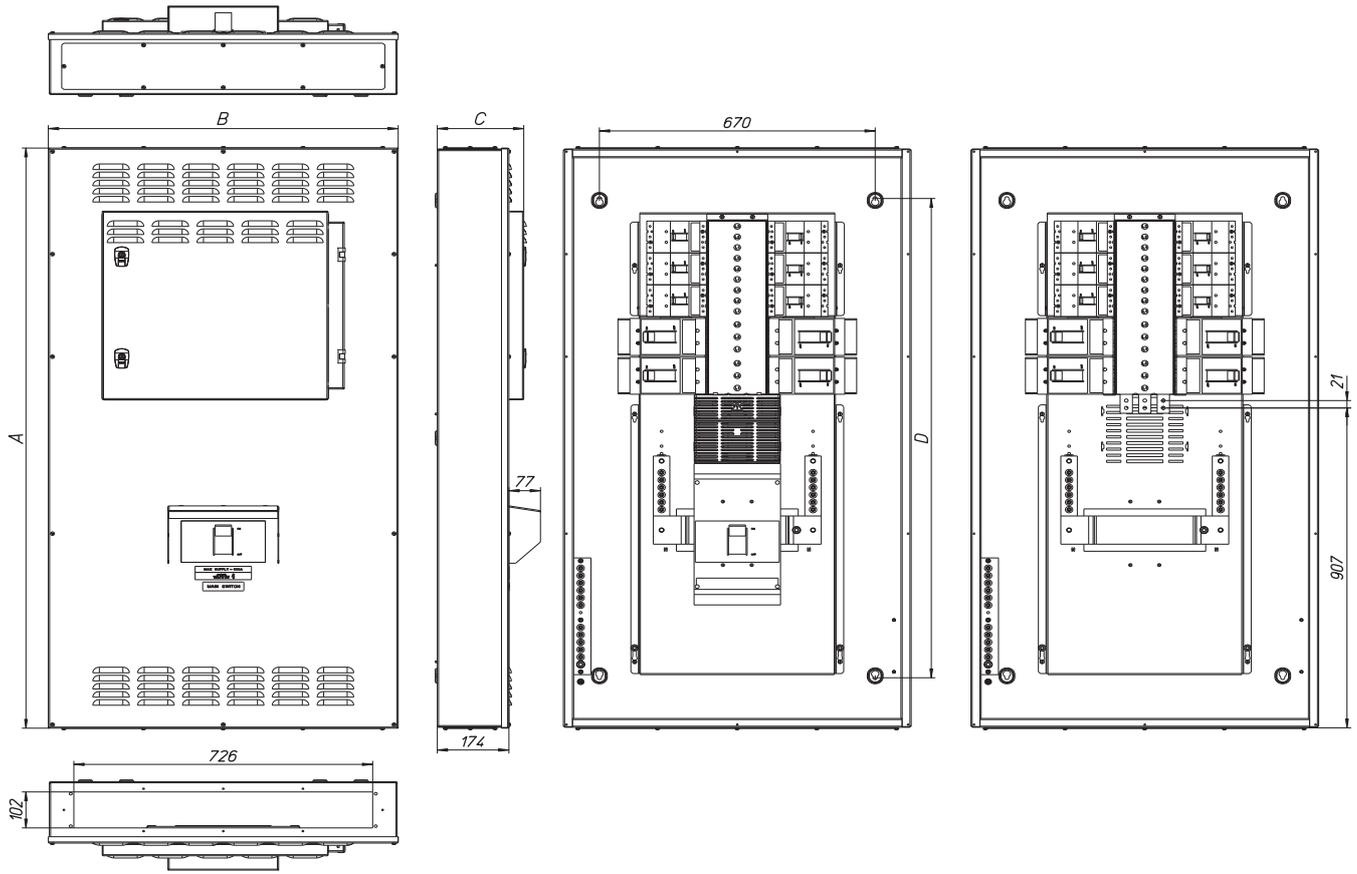


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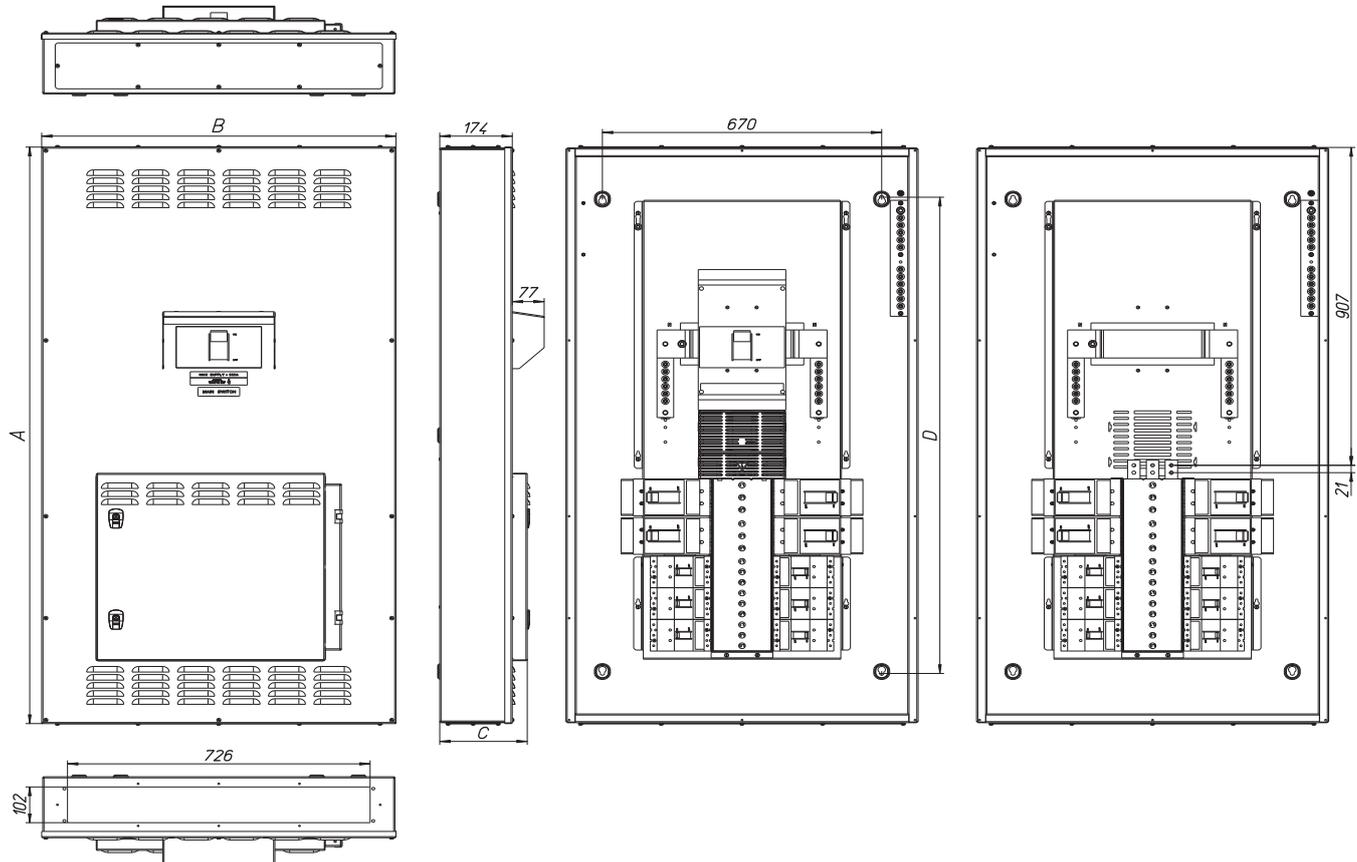
Technical data

630A Panelboard dimensional drawings (Bottom/Top Entry)

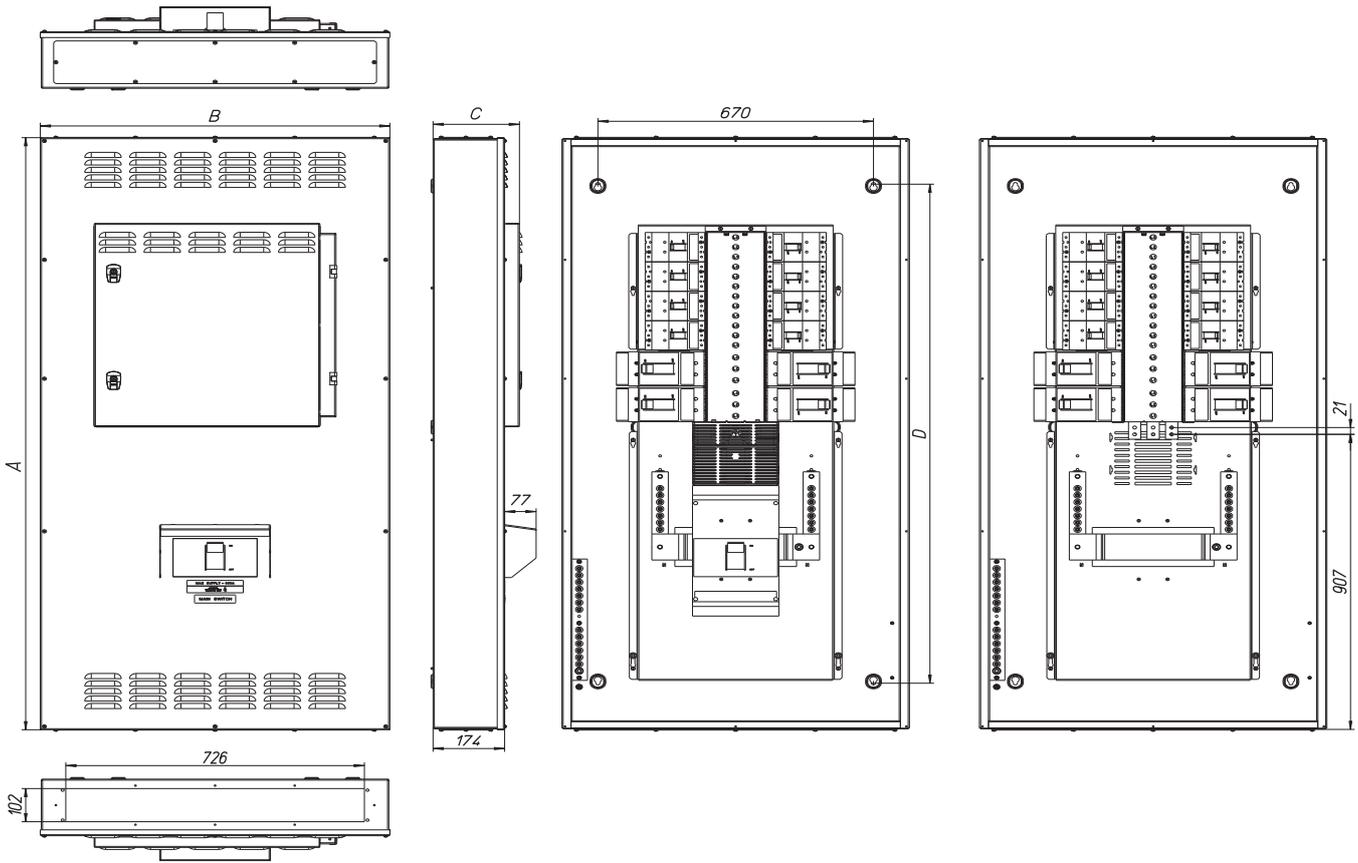
Bottom entry



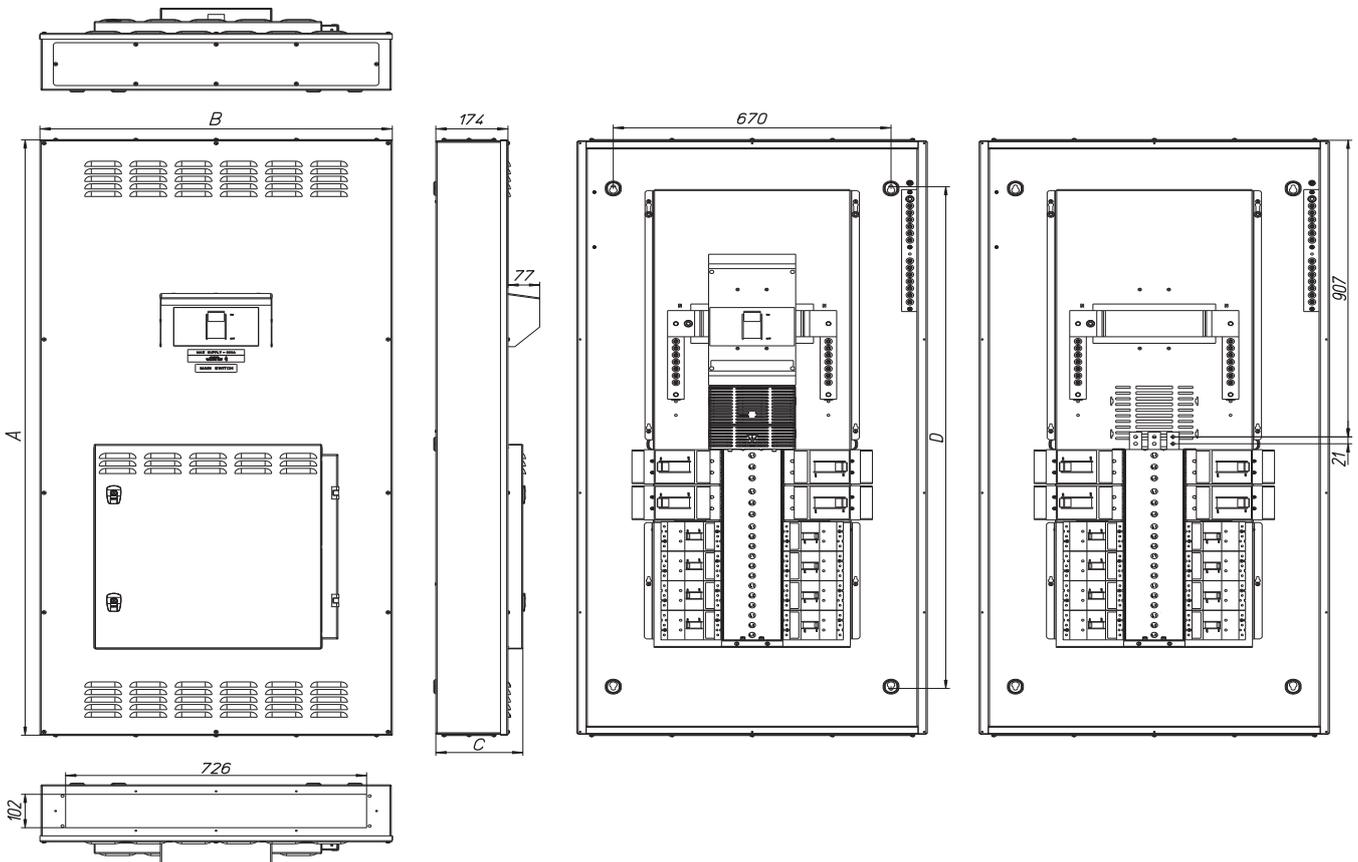
Top entry



Bottom entry



Top entry

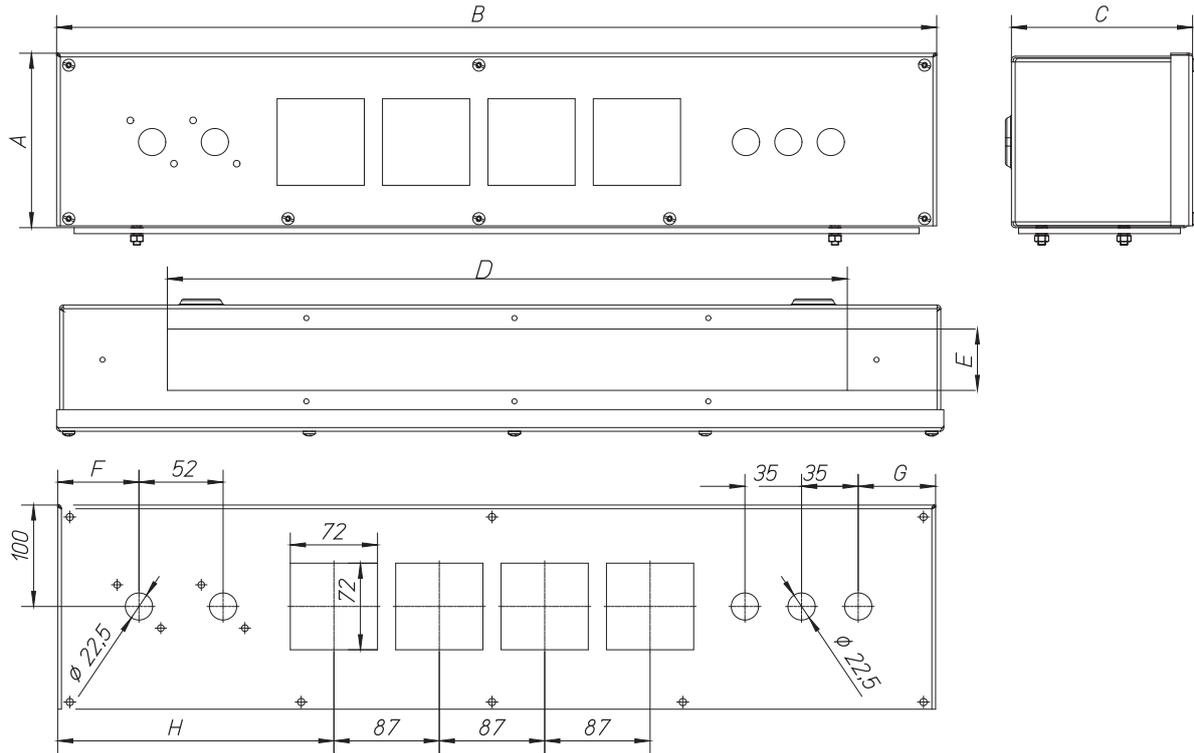


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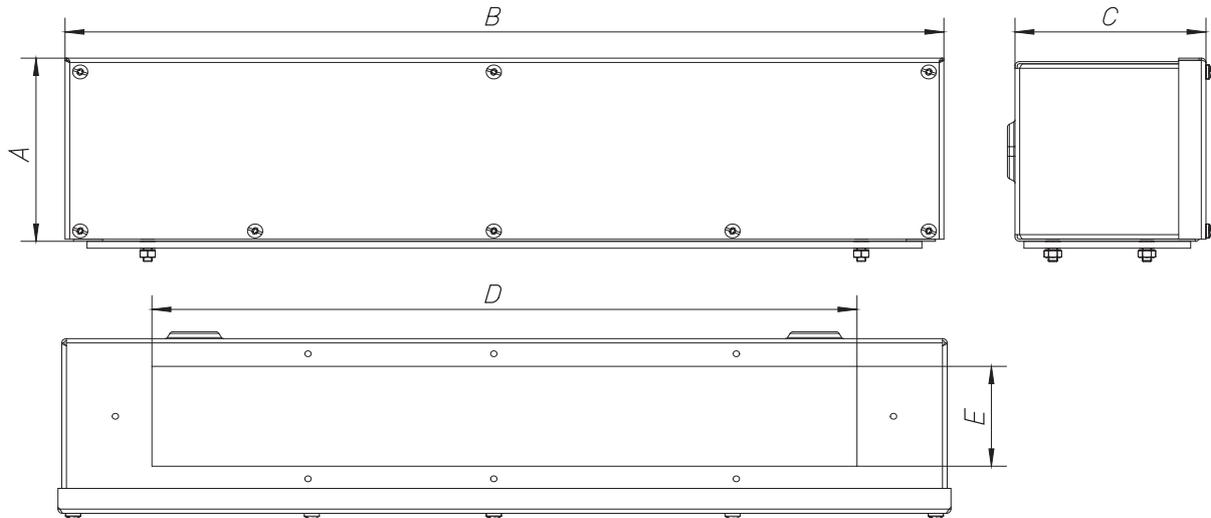
Technical data

Metering extension box, extension box & base extension kit dimensional drawings

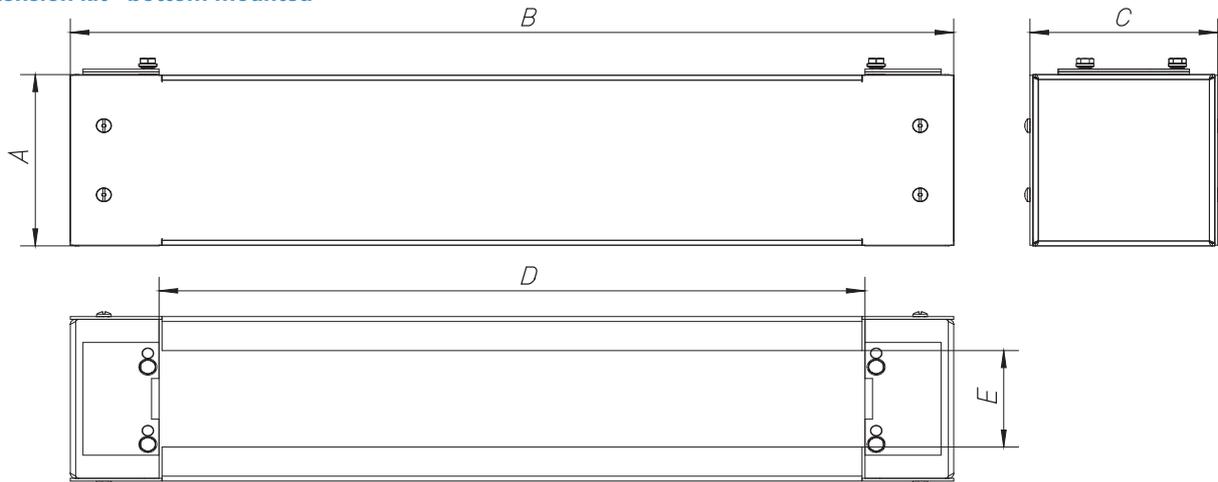
Metering extension box



Cable extension box



Base extension kit - bottom mounted



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