

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

### Specifications

- Panelboards to IEC61439-2. From 3b Type 2
- Busbar system KEMA certified 50 kA Icc, Icw 25kA 1s
- IP3X construction
- MCCBs to IEC60947-2. kA ratings shown are Ics=Icu at 400V ac
- Switch disconnectors to IEC60947-3
- Incomer accessible with closed door
- 100% neutral busbar
- Enclosure thickness 1.5 mm

### Features

- 4, 6, 8, or 12 outgoing TP, ways
- Outgoing devices; NZM1 16A-125A SP & 20A-160A TP
- Tin-plated busbars
- Can be configured for incomer device at top of panelboard
- Removable side gland plates as standard
- Wide range of extension boxes, metering, surge protection, and earth leakage incomer options available

See page 16 for dimensions



- Minimum ordering requirement: panelboard + incoming device + incomer connection kit + outgoing devices + blanking plates

Description	Associated incoming devices	Current rating (A)	No. of ways	Eaton list number	Article number
Incoming rating up to 250A, Outgoing ratings up to 160A	NZM2 MCCB or N2 switch disconnector or direct lugs connection	250	4	EBMN1425X	167514
			6	EBMN1625X	167515
			8	EBMN1825X	167516
			12	EBMN11225X	167517



### MCCB incoming device

- 36KA
- Select appropriate incomer device from table below
- Maximum cable capacity 185mm
- Adjustable trip Thermal trip adjustment 0.8 to 1 X In, Magnetic trip adjustment 6 to 10X In

Poles	Incoming device type	Current rating (A)	Eaton list number short circuit rating 36kA	Article number
3-pole	NZM2 MCCB	160	NZMC2-A160	271421
		200	NZMC2-A200	271422
		250	NZMC2-A250	271423



### Switch disconnector (non-automatic) incoming device

- Select appropriate, income device from table below
- Maximum cable capacity 185mm<sup>2</sup>

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



### Incomer connection kit/metering connection kit

- See incoming metering section below to order metering components

Poles	Maximum rating (A)	Eaton list	Artical number
3-pole incomer connection kit - includes metering CT and CT to meter cable	250	EPBKN1253M	166773

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



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

Description	Incoming device type	Current rating (A)	Eaton list number	Article number
Box terminal up to 160A	NZM2/N2	160	NZM2-160-XXC	262240
Box terminal up to 250A	NZM2/N2	250	NZM2-250-XXC	262244



### Outgoing devices-NZM1 frame MCCBs

- Maximum cable capacity 70mm<sup>2</sup>
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I<sub>n</sub>, magnetic trip adjustment 6 to 10 x I<sub>n</sub>

Rating (A)	Eaton list number Single pole 25kA	Article number	Eaton list number Triple 25kA	Article number
16	NZMB1-1-AF16	152560	-	-
20	NZMB1-1-AF20	152531	NZMB1-A20	280987
25	NZMB1-1-AF25	152532	NZMB1-A25	280988
32	NZMB1-1-AF32	152533	NZMB1-A32	280989
40	NZMB1-1-1AF40	152534	NZMB1-A40	259075
50	NZMB1-1-AF50	152535	NZMB1-A50	259076
63	NZMB1-1-AF63	152536	NZMB1-A63	259077
80	NZMB1-1-AF80	152537	NZMB1-A80	259078
100	NZMB1-1-AF100	152538	NZMB1-A100	259079
125	NZMB1-1-AF125	152539	NZMB1-A125	259080
160	-	-	NZMB1-A160	281230



### Accessories

Description	Eaton list number	Artical number
SP blanking module NZM1 frame (i.e. order 3 per TP way)	EPBN1BP1	167095



### Cable extension boxes - side mounted

Description	Eaton list number
To fit 4 way panelboard EPBN1425X	EPBN1425SXB
To fit 6 way panelboard EPBN1625X	EPBN1625SXB
To fit 8 way panelboard EPBN1825X	EPBN1825SXB
To fit 12 way panelboard EPBN11225X	EPBN11225SXB



### Cable extension boxes - top/bottom mounted

Description	Eaton list number
250mm high	EPBN1EX250



### Incoming metering - digital

Description	Eaton list number
Incomer meter enclosure (can be fitted to top or bottom of panelboard). Meter not included	EPBN1EX250M
Multifunction meter measuring parameters: Voltage (P-P / P / N) (individual/average) Current (I1, I2, I3) (individual/average) Frequency Power factor (individual/average) Active, reactive, apparent power (individual/total) Active, reactive, apparent energy (total)	EPBMETER1
Voltage supply to meter tap off kit (includes protection fuses). One per panelboard required, irrespective of number of meters	EPBN1SUPM

# 2.2

## Memshield 3 MCCB panelboards and associated devices

Incoming device ratings up to 400A – outgoing device ratings up to 160A

### Specifications

- Panelboards to IEC61439-2. From 3b Type 2
- Busbar system KEMA certified 50 kA I<sub>cc</sub>, I<sub>cw</sub> 30kA 1s
- IP3X construction
- MCCBs to IEC60947-2. kA ratings shown are I<sub>cs</sub>=I<sub>cu</sub> at 400V ac
- Switch disconnectors to IEC60947-3
- Incomer accessible with closed door
- 100% neutral busbar
- Enclosure thickness 1.5 mm

### Features

- 6 or 12 outgoing TP ways
- Outgoing devices; NZM1 16A-125A SP & 20A-160A TP
- Tin-plated busbars
- Can be configured for incomer device at top of panelboard
- Removable side gland plates as standard
- Wide range of extension boxes, metering, surge protection, and earth leakage incomer options available

See page 16 for dimensions



- Minimum ordering requirement: panelboard + incoming device + incomer connection kit + outgoing devices + blanking plates

Description	Associated incoming devices	Current rating (A)	No. of ways	Eaton list number	Article number
Incoming rating up to 400A, Outgoing ratings up to 160A	NZM2 MCCB or N3 switch disconnector or direct lugs connection	400	6	EPBN1640X	167518
			12	EPBN11240X	167519



### MCCB incoming device

- 50KA
- Select appropriate incomer device from table below
- Maximum cable capacity 240mm<sup>2</sup>
- Adjustable trip Thermal trip adjustment 0.8 to 1 x I<sub>n</sub>, Magnetic trip adjustment 6 to 10 x I<sub>n</sub>

Poles	Incoming device type	Current rating (A)	Eaton list number short circuit rating 50kA	Article number
3-pole	NZM3 MCCB	320	NZMC3-A320	109669
		400	NZMC3-A400	109670



### Switch disconnector (non-automatic) incoming device

- Select appropriate incomer device from table below
- Maximum cable capacity 240mm<sup>2</sup>

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	N3 Switch disconnector	400	N3-400	266019



### Incomer connection kit/metering connection kit

- See incoming metering section below to order metering components

Poles	Maximum rating (A)	Eaton list	Artical number
3-pole incomer connection kit	400	EPBKN2403	166778
3-pole incomer connection kit - includes metering CT and CT to meter cable	400	EPBKN2403M	166779



### Box terminal for incoming device

Description	Incoming device type	Current rating (A)	Eaton list number	Article number
3x terminal, 3p, up to 630 A	NZM3	630	NZM3-XKC	260042

Incoming device ratings up to 400A – outgoing device ratings up to 160A



## Outgoing devices-NZM1 frame MCCBs

- Maximum cable capacity 70mm<sup>2</sup>
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I<sub>n</sub>, magnetic trip adjustment 6 to 10 x I<sub>n</sub>

Rating (A)	Eaton list number Single pole 25kA	Article number	Eaton list number Triple 25kA	Article number
16	NZMB1-1-AF16	152560	-	-
20	NZMB1-1-AF20	152531	NZMB1-A20	280987
25	NZMB1-1-AF25	152532	NZMB1-A25	280988
32	NZMB1-1-AF32	152533	NZMB1-A32	280989
40	NZMB1-1-1AF40	152534	NZMB1-A40	259075
50	NZMB1-1-AF50	152535	NZMB1-A50	259076
63	NZMB1-1-AF63	152536	NZMB1-A63	259077
80	NZMB1-1-AF80	152537	NZMB1-A80	259078
100	NZMB1-1-AF100	152538	NZMB1-A100	259079
125	NZMB1-1-AF125	152539	NZMB1-A125	259080
160	-	-	NZMB1-A160	281230



## Accessories

Description	Eaton list number	Artical number
SP blanking module NZM1 frame (i.e. order 3 per TP way)	EPBN1BP1	167095



## Cable extension boxes - side mounted

Description	Eaton list number
To fit 6 way panelboard EPBN1640X	EPBN2640SXB
To fit 12 way panelboard EPBN11240X	EPBN21240SXB



## Cable extension boxes - top/bottom mounted

Description	Eaton list number
250mm high	EPBN2EX250



## Incoming metering - digital

Description	Eaton list number
Incomer meter enclosure (can be fitted to top or bottom of panelboard). Meter not included	EPBN2EX250M
Multifunction meter measuring parameters: Voltage (P-P / P / N) (individual/average) Current (11, 12, 13) (individual/average) Frequency Power factor (individual/average) Active, reactive, apparent power (individual/total) Active, reactive, apparent energy (total)	EPBMETER1
Voltage supply to meter tap off kit (includes protection fuses). One per panelboard required, irrespective of number of meters	EPBN3SUPM

# 2.3

## Memshield 3 MCCB panelboards and associated devices

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

### Specifications

- Panelboards to IEC61439-2. From 3b Type 2
- Busbar system KEMA certified 50 kA I<sub>cc</sub>, I<sub>cw</sub> 35kA 1s
- IP3X construction
- MCCBs to IEC60947-2. kA ratings shown are I<sub>cs</sub>=I<sub>cu</sub> at 400V ac
- Switch disconnectors to IEC60947-3
- Incomer accessible with closed door
- 100% neutral busbar
- Enclosure thickness 1.5 mm

### Features

- 6, 12, or 18 outgoing TP, ways
- Outgoing devices; these panelboards utilise two frame sizes of MCCB: NZM2 125A 250A TP, and NZM1 SP16A-125A or TP20A-160A
- Tin-plated busbars
- Can be configured for incomer device at top of panelboard
- Removable side gland plates as standard
- Wide range of extension boxes, metering, surge protection, and earth leakage incomer options available

See page 16 for dimensions



- Minimum ordering requirement: panelboard + incoming device + incomer connection kit + outgoing devices + blanking plates

Description	Associated incoming devices	Current rating (A)	No. of outgoing ways	Eaton list number	Article number
Incoming rating up to 400A, Outgoing ratings up to 250A	NZM3 MCCB or N2 switch disconnector or direct lugs connection	400	6 (2 x 250A + 4 x 160A)	EPBN2640X	167520
			12 (2 x 250A + 10 x 160A)	EPBN21240X	167521
			18 (2 x 250A + 16 x 160A)	EPBN21840X	167522



#### MCCB incoming device

- 50KA
- Select appropriate incomer device from table below
- Maximum cable capacity 240mm<sup>2</sup>
- Adjustable trip Thermal trip adjustment 0.8 to 1 x I<sub>n</sub>, Magnetic trip adjustment 6 to 10 x I<sub>n</sub>

Poles	Incoming device type	Current rating (A)	Eaton list number short circuit rating 50kA	Article number
3-pole	NZM3 MCCB	320	NZMC3-A320	109669
		400	NZMC3-A400	109670



#### Switch disconnector (non-automatic) incoming device

- Select appropriate incomer device from table below
- Maximum cable capacity 240mm<sup>2</sup>

Poles	Incoming device type	Current rating (A)	Eaton list number	Article number
3-pole	N3 Switch disconnector	400	N3-400	266019



#### Incomer connection kit/metering connection kit

- See incoming metering section below to order metering components

Poles	Maximum rating (A)	Eaton list	Article number
3-pole incomer connection kit	400	EPBKN2403	166778
3-pole incomer connection kit - includes metering CT and CT to meter cable	400	EPBKN2403M	166779



#### Outgoing devices-NZM1 frame MCCBs

- Maximum cable capacity 185mm<sup>2</sup>
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I<sub>n</sub>, magnetic trip adjustment 6 to 10 x I<sub>n</sub>

Rating (A)	Eaton list number Single pole 36kA	Article number
160	NZMC2-A160	271421
200	NZMC2-A200	271422
250	NZMC2-A250	271423

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

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



### Box terminal for incoming device

Description	Incoming device type	Current rating (A)	Eaton list number	Article number
Box terminal, 3p, up to 630 A	NZM3	630	NZM3-XKC	260042



### Outgoing devices-NZM1 frame MCCBs

- Maximum cable capacity 70mm<sup>2</sup>
- Single pole fixed trip. Triple pole thermal trip adjustment 0.8 to 1 x I<sub>n</sub>, magnetic trip adjustment 6 to 10 x I<sub>n</sub>

Rating (A)	Eaton list number Single pole 25kA	Article number	Eaton list number Triple 25kA	Article number
16	NZMB1-1-AF16	152560	-	-
20	NZMB1-1-AF20	152531	NZMB1-A20	280987
25	NZMB1-1-AF25	152532	NZMB1-A25	280988
32	NZMB1-1-AF32	152533	NZMB1-A32	280989
40	NZMB1-1-1AF40	152534	NZMB1-A40	259075
50	NZMB1-1-AF50	152535	NZMB1-A50	259076
63	NZMB1-1-AF63	152536	NZMB1-A63	259077
80	NZMB1-1-AF80	152537	NZMB1-A80	259078
100	NZMB1-1-AF100	152538	NZMB1-A100	259079
125	NZMB1-1-AF125	152539	NZMB1-A125	259080
160	-	-	NZMB1-A160	281230



### Accessories

Description	Eaton list number	Artical number
SP blanking module NZM1 frame (i.e. order 3 per TP way)	<b>EPBN1BP1</b>	167095



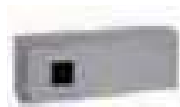
### Cable extension boxes - side mounted

Description	Eaton list number
To fit 6 way panelboard EPBN2640X	EPBN2640SXB
To fit 12 way panelboard EPBN21240X	EPBN21240SXB
To fit 18 way panelboard EPBN21840X	EPBN21840SXB



### Cable extension boxes - top/bottom mounted

Description	Eaton list number
250mm high	EPBN2EX250

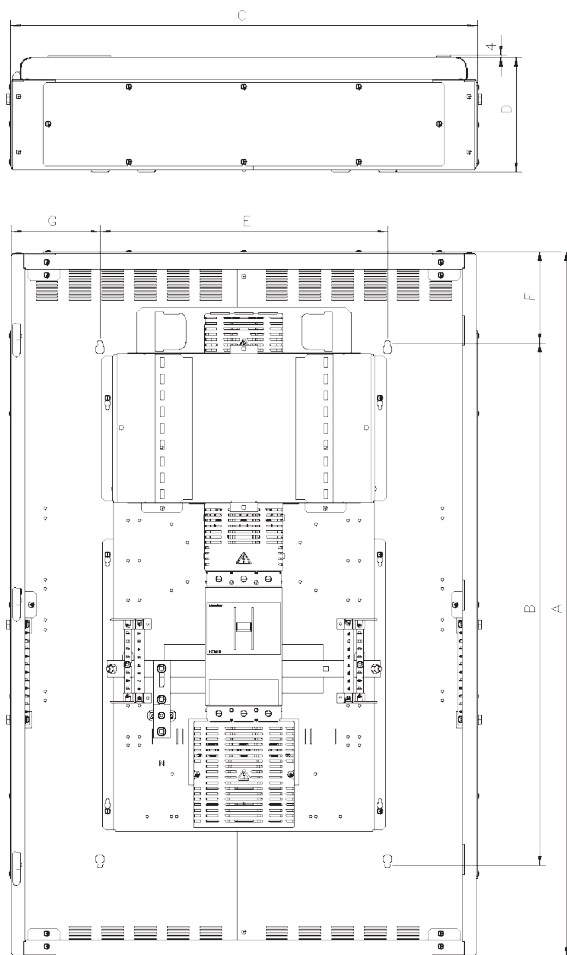


### Incoming metering - digital

Description	Eaton list number
Incomer meter enclosure (can be fitted to top or bottom of panelboard). Meter not included	EPBN2EX250M
Multifunction meter measuring parameters: Voltage (P-P / P / N) (individual/average) Current (11, 12, 13) (individual/average) Frequency Power factor (individual/average) Active, reactive, apparent power (individual/total) Active, reactive, apparent energy (total)	EPBMETER1
Voltage supply to meter tap off kit (includes protection fuses). One per panelboard required, irrespective of number of meters	EPBN3SUPM

# 2.4 Technical data/Dimensional drawing

## Panelboard dimensional drawings



Panelboards

## Panelboard dimensions

Description	Eaton list number	Dimensions (mm)						
		A	B	C	D	E	F	G
Panelboards	EPBN1425X	830	544	703	185.5	525	143	89
	EPBN1625X	920	544	703	185.5	525	188	89
	EPBN1825X	1010.5	837.5	703	185.5	525	86.5	89
	EPBN11225X	1191.5	1002	703	185.5	525	94.75	89
	EPBN1640X	1291.5	956.5	853	210.5	525	167.5	164
	EPBN11240X	1563	1228	853	210.5	525	167.5	164
	EPBN2640X	1291.5	956.5	853	210.5	525	167.5	164
	EPBN21240X	1563	1228	853	210.5	525	167.5	164
	EPBN21840X	1834.5	1499.5	853	210.5	525	167.5	164