

Memshield 4 panelboard

Form 4 Type 6 or Form 4 Type 2 - 4 Pole panelboard
Available in 400A & 800A busbar ratings

Form 4b Type 6
Form 4a Type 2

- High-levels of segregations and compartmentalisation - enabling increased operator safety
- Live side connections for essential loads – power continuity
- Components available off the shelf – faster time to market
- Easily adaptable on site – flexible even at a late stage of installation

Typical configurations



400A F4-4P Panelboard Form 4
Type 6 Compartmentalised



800A F4-4P Panelboard Form 4
Type 6 Group Mounted

Eaton's **MEMShield 4 panelboard** is a compact yet highly configurable and modular panel board that is the **perfect alternative to a small Section Board or a Switchboard**. It is more cost-effective solution than standard switchboards but still offers reduced levels of installer risk through Form 4b Type 6 Separation – delivered as Group Mounted or Compartmentalised.



Powering Business Worldwide



Memshield 4 MCCB
Panelboards | Eaton

Specification

- Panelboards acc.to BS EN 61439-2
- Panelboard is supplied as Form 4 Type 6 group mounted
- 4-pole fully shrouded IPXXB plug-in busbar assembly
- Busbar system DEKRA certified at l_{cw} 50kA / 1s
- Enclosure degree of protection IP3X (wall-mounted)
- MCCBs acc.to IEC/EN 60947-2
- Switch disconnectors acc.to IEC/EN 60947-3

See pages 147-150 for dimensions.

Features

- 8, 14 or 18 outgoing ways
- Efficient design enables multiple number of outgoing options (SPN, TPN, 4P)
- Standard off the shelf circuit breakers fit to the assembly
- Outgoing devices: these panelboards utilise two frame sizes of MCCBs: NZM2 125-250A TPN/4P, NZM1 SPN 16-125A and/or TPN/4P 20-160A
- Easily reconfigurable to meet fully compartmentalised approach either Form 4 / Type 2 or Form 4 / Type 6
- The design suits for top or bottom (as standard) incomer configuration
- Removable end rails and gland plates for better access during installation
- Wide range of extension boxes, plinths, metering, surge protection and earth leakage incomer options available
- Provision for line side connection for sprinkler systems

EM4PB840



Minimum ordering requirement: Panelboard + incoming device + incomer connection kit + feeder adapters + outgoing devices + blanking modules and associated components for Group Mounted or Compartmentalised

Description	Associated incoming device	Current rating (A)	No. of outgoing ways based on NZM1 TPN/4P group mounted *)	Eaton list number
Incoming rating up to 400A, Outgoing ratings up to 250A	NZM3 MCCB or N3 Switch Disconnector or direct lugs connection kit	400	8	EM4PB840
			14	EM4PB1440
			18	EM4PB1840

*) see Selection tool for permutations

NZMN3-A400



MCCB incoming device

- 50 kA (I_{cu}=I_{cs} at 400/415 VAC)
- 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
3-pole	NZM3 MCCB	250	NZMN3-A250
		320	NZMN3-A320
		400	NZMN3-A400
	Digital NZM3 MCCB	400	NZMN3-VX400
		400	NZMN3-AX400
		400	NZMN3-VX400-T
4-pole (3 phase and switched neutral)	NZM3 MCCB	250	NZMN3-4-A250
		320	NZMN3-4-A320
		400	NZMN3-4-A400
	Digital NZM3 MCCB	400	NZMN3-4-AX400
		400	NZMN3-4-VX400
		400	NZMN3-4-VX400-T

N3-400



Switch disconnector (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
3-pole	N3 switch disconnector	400	N3-400
4-pole	N3 switch disconnector	400	N3-4-400

EM4PBK404



Incoming connection kit / metering connection kit

Poles / description	Maximum rating (A)	Eaton list number
TPN / 4-pole incomer connection kit	400	EM4PBK404
TPN / 4-pole incomer connection kit - includes metering CT and connection cable to energy meter	400	EM4PBK404M
Direct connection lugs kit	400	EM4PBK404L
Direct connection lugs kit - includes metering CT and connection cable to energy meter	400	EM4PBK404LM
Neutral link incomer when using 3-pole incoming device	400	EM4PBNK40

EM4PBFAN14



Feeder adaptors

- incl. carriage, copper conductors and plug-in contacts

Type of MCCB / poles	Maximum frame rating (A)	Eaton list number
NZM1 SPN phase 1 / Neutral (L1N)	125	EM4PBFAN1L1N
NZM1 SPN phase 2 / Neutral (L2N)	125	EM4PBFAN1L2N
NZM1 SPN phase 3 / Neutral (L3N)	125	EM4PBFAN1L3N
NZM1 TPN / 4-pole	160	EM4PBFAN14
NZM2 TPN / 4-pole	250	EM4PBFAN24

NZMN2-A250-BT



Outgoing devices / feeders - NZM2 frame MCCBs

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

Rating / description (A)	Eaton list number Triple pole 50kA ~	Eaton list number TPN/4-pole 50kA ~
125	NZMN2-A125-BT	NZMN2-4-A125*)
160	NZMN2-A160-BT	NZMN2-4-A160-BT
200	NZMN2-A200-BT	NZMN2-4-A200-BT
250	NZMN2-A250-BT	NZMN2-4-A250-BT
Group mounted/Comp. Form 4 Type 2 neutral link for outgoing section when using 3-pole outgoing device	EM4PBGMN2N	—

*) 2 sets of box terminals NZM2-4-250-XKC has to be ordered separately
 ~ For 36kA variant, in the MCCB part number, replace NZMN2... with NZMC2...

EM4PBGMN2N



Electronic Trip Unit

- Adjustable trip overloads 40-100% x In
- Instantaneous S/C release fixed 18 x In
- Delayed S/C release 2-10 x Ir

NZM3 Electronic 3 Pole devices (50kA)

Amps	Eaton List Number Triple pole (50kA)	Eaton List Number-Ground fault protection
250	NZMN3-VX250	NZMN3-VX250-T

NZM2 Electronic 3 Pole devices (50kA)

100	NZMN2-VX100-BT	NZMN2-VX100-T
160	NZMN2-VX160-BT	NZMN2-VX160-T
250	NZMN2-VX250-BT	NZMN2-VX250-T

NZM2 Electronic 4 Pole devices (50kA)

100	NZMN2-4-VX100-BT	NZMN2-4-VX100-T
160	NZMN2-4-VX160-BT	NZMN2-4-VX160-T
250	NZMN2-4-VX250-BT	NZMN2-4-VX250-T

*When using 3 pole device EM4PBGMN2N neutral link needs to be used.

NZMB1-1-AF63 & NZMN1-A160



Outgoing devices / feeders - NZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Thermal trip adjustment 0.8 to 1 x In, magnetic trip adjustment 6 to 10 x In

Rating / description (A)	Eaton list number Single pole 25kA	Eaton list number Triple pole 50kA #	Eaton list number TPN/4-pole 50kA #
16	NZMB1-1-AF16		
20	NZMB1-1-AF20	NZMN1-A20	NZMN1-4-A20
25	NZMB1-1-AF25	NZMN1-A25	NZMN1-4-A25
32	NZMB1-1-AF32	NZMN1-A32	NZMN1-4-A32
40	NZMB1-1-AF40	NZMN1-A40	NZMN1-4-A40
50	NZMB1-1-AF50	NZMN1-A50	NZMN1-4-A50
63	NZMB1-1-AF63	NZMN1-A63	NZMN1-4-A63
80	NZMB1-1-AF80	NZMN1-A80	NZMN1-4-A80
100	NZMB1-1-AF100	NZMN1-A100	NZMN1-4-A100
125	NZMB1-1-AF125	NZMN1-A125	NZMN1-4-A125
160	—	NZMN1-A160	NZMN1-4-A160
Group mounted/Comp. Form 4 Type 2 neutral link for outgoing section when using 1-pole / 3-pole outgoing device	EM4PBGMN1N	EM4PBGMN1N	—

For 25kA variant, in the MCCB part number, replace NZMN1... with NZMB1... and for 36kA variant replace NZMN1... with NZMC1...

EM4PBGMN1N



EM4PBGMGP



Accessories - Group Mounted approach

Description	used for	Eaton list number
Blanking plate		EM4PBGMGP
Finger guards are mandatory to each outgoing device cable termination for compliance with Form 4 Type 6	NZM1 SPN	NZM1-1-XIPK
	NZM1 TPN (non-switched neutral)	NZM1-XIPK
	NZM1 4P (switched neutral)	NZM1-4-XIPK
Finger guards are mandatory to each outgoing device cable termination for compliance with Form 4 Type 6	NZM2 TPN (non-switched neutral)	NZM2-XIPK
	NZM2 4P (switched neutral)	NZM2-4-XIPK

NZM1-4-XIPK



Form 4 Type 6 group mounted



Possible outgoing arrangement of NZM1/NZM2 depending on form of separation

- Note a mixture of NZM1 and NZM2 breakers can be fitted (not part of the table) - see Selection tool for permutations

Board reference / description	Type of feeder	Max. number of NZM1 (only) breakers can be fitted		Max. number of NZM2 (only) breakers can be fitted	
		Compartmentalised	Group Mounted	Compartmentalised	Group Mounted
EM4PB840 / 8-way board	NZM1 - 1P and N	12	16	—	—
	NZM1 - 3P and N / 4P	6	8	—	—
	NZM2 - 3P and N / 4P	—	—	6	6
EM4PB1440 / 14-way board	NZM1 - 1P and N	20	28	—	—
	NZM1 - 3P and N / 4P	12	14	—	—
	NZM2 - 3P and N / 4P	—	—	10	12
EM4PB1840 / 18-way board	NZM1 - 1P and N	26	36	—	—
	NZM1 - 3P and N / 4P	14	18	—	—
	NZM2 - 3P and N / 4P	—	—	12	14

Form 4 Type 6 compartmentalised



Compartmentalised kits to upgrade the standard Form 4 Type 6 group mounted design to higher form of separation

- Minimum ordering requirement for compartmentalisation: Overall fitting + incomer + outgoer kit per device or unused way (select neutral link when 3-pole devices are used as outgoer)

Type of Compartmentalised kit	used for	Form of separation	Eaton list number
Overall fitting kit	MCCB Panelboard EM4PB... 400/800A	Form 4 Type 2 / Type 6	EM4PBCK
Incomer kit	NZM3 MCCB / N3 switch disconnecter	Form 4 Type 2 / Type 6	EM4PB40CKINC
Outgoer kit	NZM1 SPN	Form 4 Type 2	EM4PBCKN122
	NZM1 TPN / 4-pole		EM4PBCKN142
	NZM2 TPN / 4-pole		EM4PBCKN242
Outgoer kit	NZM1 SPN	Form 4 Type 6	EM4PBCKN126
	NZM1 TPN / 4-pole		EM4PBCKN146
	NZM2 TPN / 4-pole		EM4PBCKN246
Neutral link	NZM1 Neutral	Form 4 Type 6	EM4PBCKN1N
	NZM2 Neutral		EM4PBCKN2N
Unused way	—	Form 4 Type 2 / Type 6	EM4PBCKUW

EM4PBCK



EM4PBCKN242



EM4PBCKN246



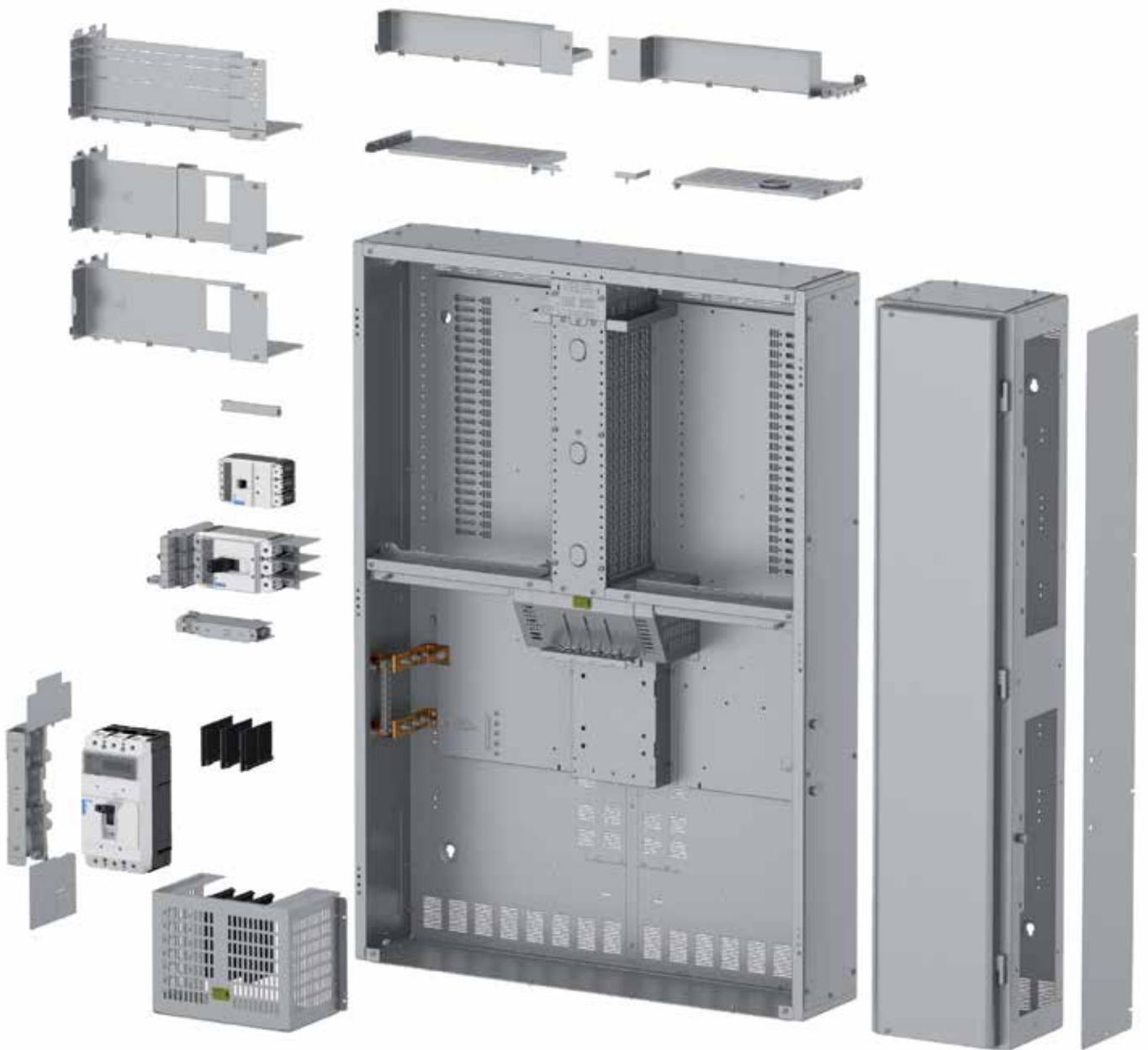
EM4PBCKN24BK



Accessories - Compartmentalised approach

Description	Eaton list number
Blanking plate NZM1 SPN	EM4PBCKN12BK
Blanking plate NZM1 TPN / 4-pole	EM4PBCKN14BK
Blanking plate NZM2 TPN / 4-pole	EM4PBCKN24BK

Exploded view of new panelboard approach incl. accessories



Specification

- Panelboards acc.to BS EN 61439-2
- Panelboard is supplied as Form 4 Type 6 group mounted
- 4-pole fully shrouded IPXXB plug-in busbar assembly
- Busbar system DEKRA certified at l_{cw} 50kA / 1s
- Enclosure degree of protection IP3X (wall-mounted)
- MCCBs acc.to IEC/EN 60947-2
- Switch disconnectors acc.to IEC/EN 60947-3

See pages 147-150 for dimensions.

Features

- 6, 12 or 16 outgoing ways
- Efficient design enables multiple number of outgoing options (SPN, TPN, 4P)
- Standard off the shelf circuit breakers fit to the assembly
- Outgoing devices: these panelboards utilise three frame sizes of MCCBs: NZM3 250-400A TPN/4P (fixed position, lower left/right), NZM2 125-250A TPN/4P (completely variable), NZM1 SPN 16-125A and/or TPN/4P 20-160A (completely variable)
- Easily reconfigurable to meet fully compartmentalised approach either Form 4 /Type 2 or Form 4 /Type 6
- The design suits for top or bottom (as standard) incomer configuration
- Removable end rails and gland plates for better access during installation
- Wide range of extension boxes, plinths, metering, surge protection and earth leakage incomer options available
- Provision for line side connection for sprinkler systems

EM4PB680



Minimum ordering requirement: Panelboard + incoming device + incomer connection kit + feeder adapters + outgoing devices + blanking modules and associated components for Group Mounted or Compartmentalised

Description	Associated incoming device	Current rating (A)	No. of outgoing ways based on NZM1 TPN/4P group mounted *)	Eaton list number
Incoming rating up to 800A, Outgoing ratings up to 400A	NZMLW MCCB or NLW Switch Disconnecter or direct lugs connection kit	800	6	EM4PB680
			12	EM4PB1280
			16	EM4PB1680

*) see Selection tool for permutations

NZMLW-800



MCCB incoming device

- 50kA
- Select appropriate incomer device from table below
- Maximum cable capacity 2 x 300mm²
- Thermal trip adjustment 0.5 to 1 x I_n, Magnetic trip adjustment 2 to 8 x I_n

Poles	Incoming device type	Current rating (A)	Eaton list number
3-pole	NZMLW MCCB	630 800	NZMLW-A630 NZMLW-A800
4-pole (3 phase and switched neutral)	NZMLW MCCB	630 800	NZMLW-4-A630 NZMLW-4-A800

NLW-800



Switch disconnector (non-automatic) incoming device

- 50kA
- Select appropriate incomer device from table below
- Maximum cable capacity 2 x 300mm²

Poles	Incoming device type	Current rating (A)	Eaton list number
3-pole	NLW switch disconnector	630 800	NLW-630 NLW-800
4-pole	NLW switch disconnector	630 800	NLW-4-630 NLW-4-800

EM4PBK804



Incoming connection kit / metering connection kit

Poles / description	Maximum rating (A)	Eaton list number
TPN / 4-pole incomer connection kit	800	EM4PBK804
TPN / 4-pole incomer connection kit - includes metering CT and connection cable to energy meter	800	EM4PBK804M
Direct connection lugs kit	800	EM4PBK804L
Direct connection lugs kit - includes metering CT and connection cable to energy meter	800	EM4PBK804LM
Neutral link incomer when using 3-pole incoming device	800	EM4PBNK80

EM4PBFAN14



Feeder adaptors

- incl. carriage, copper conductors and plug-in contacts

Type of MCCB / poles	Maximum frame rating (A)	Eaton list number
NZM1 SPN phase 1 / Neutral (L1N)	125	EM4PBFAN1L1N
NZM1 SPN phase 2 / Neutral (L2N)	125	EM4PBFAN1L2N
NZM1 SPN phase 3 / Neutral (L3N)	125	EM4PBFAN1L3N
NZM1 TPN / 4-pole	160	EM4PBFAN14
NZM2 TPN / 4-pole	250	EM4PBFAN24
NZM3 TPN / 4-pole	400	EM4PBFAN34

NZMN3-A400-BT



Outgoing devices / feeders - NZM3 frame MCCBs

- Maximum cable capacity 240mm²
- Up to 2 breakers can be fitted (lower left/right)
- Thermal trip adjustment 0.8 to 1 x In, magnetic trip adjustment 6 to 10 x In

Rating / description (A)	Eaton list number Triple pole 50kA x	Eaton list number TPN/4-pole 50kA x
250	NZMN3-A250 *	NZMN3-4-A250 *
320	NZMN3-A320 *	NZMN3-4-A320 *
400	NZMN3-A400 *	NZMN3-4-A400 *

Group mounted/Comp. Form 4 Type 2 neutral link for outgoing section when using 3-pole outgoing device

*) when using finger guards to fulfill Form 4 Type 6 one set of box terminals NZM3-XKC (3-pole) or NZM3-4-XKC (4-pole) has to be ordered separately x For 36kA variant, in the MCCB part number, replace NZMN3... with NZMC3...

EM4PBGMN3N



NZMN2-A250-BT



Outgoing devices / feeders - NZM2 frame MCCBs

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

Rating / description (A)	Eaton list number Triple pole 50kA ~	Eaton list number TPN/4-pole 50kA ~
125	NZMN2-A125-BT	NZMN2-4-A125 **)
160	NZMN2-A160-BT	NZMN2-4-A160-BT
200	NZMN2-A200-BT	NZMN2-4-A200-BT
250	NZMN2-A250-BT	NZMN2-4-A250-BT

Group mounted/Comp. Form 4 Type 2 neutral link for outgoing section when using 3-pole outgoing device

**) 2 sets of box terminals NZM2-4-250-XKC has to be ordered separately ~ For 36kA variant, in the MCCB part number, replace NZMN2... with NZMC2...

EM4PBGMN2N



Electronic Trip Unit

- Adjustable trip overloads 40-100% x In
- Instantaneous S/C release 18 x In
- Delayed S/C release 2-10 x Ir

NZM3 Electronic 3 Pole devices (50kA)

Amps	Eaton List Number Triple pole (50kA)	Eaton List Number-Ground fault protection
250	NZMN3-VX250	NZMN3-VX250-T
400	NZMN3-VX400	NZMN3-VX400-T

NZM3 Electronic 4 Pole devices (50kA)

Amps	Eaton List Number Triple pole (50kA)	Eaton List Number-Ground fault protection
400	NZMN3-4-VX400	NZMN3-4-VX400-T

NZM2 Electronic 3 Pole devices (50kA)

Amps	Eaton List Number Triple pole (50kA)	Eaton List Number-Ground fault protection
100	NZMN2-VX100-BT	NZMN2-VX100-T
160	NZMN2-VX160-BT	NZMN2-VX160-T
250	NZMN2-VX250-BT	NZMN2-VX250-T

NZM2 Electronic 4 Pole devices (50 kA)

Amps	Eaton List Number Triple pole (50kA)	Eaton List Number-Ground fault protection
100	NZMN2-4-VX100-BT	NZMN2-4-VX100-T
160	NZMN2-4-VX160-BT	NZMN2-4-VX160-T
250	NZMN2-4-VX250-BT	NZMN2-4-VX250-T

When using 3 pole device EM4PBGMN3N neutral link needs to be used

*) when using finger guards to fulfill Form 4 Type 6 one set of box terminals

NZM3-XKC (3-pole) or NZM3-4-XKC (4 pole) has to be ordered separately

NZMB1-1-AF63
& NZMN1-A160



Outgoing devices / feeders - NZM1 frame MCCBs

- Maximum cable capacity 70mm²
- Thermal trip adjustment 0.8 to 1 x I_n, magnetic trip adjustment 6 to 10 x I_n

Rating / description (A)	Eaton list number Single pole 25kA	Eaton list number Triple pole 50kA #	Eaton list number TPN/4-pole 50kA #
16	NZMB1-1-AF16		
20	NZMB1-1-AF20	NZMN1-A20	NZMN1-4-A20
25	NZMB1-1-AF25	NZMN1-A25	NZMN1-4-A25
32	NZMB1-1-AF32	NZMN1-A32	NZMN1-4-A32
40	NZMB1-1-AF40	NZMN1-A40	NZMN1-4-A40
50	NZMB1-1-AF50	NZMN1-A50	NZMN1-4-A50
63	NZMB1-1-AF63	NZMN1-A63	NZMN1-4-A63
80	NZMB1-1-AF80	NZMN1-A80	NZMN1-4-A80
100	NZMB1-1-AF100	NZMN1-A100	NZMN1-4-A100
125	NZMB1-1-AF125	NZMN1-A125	NZMN1-4-A125
160	–	NZMN1-A160	NZMN1-4-A160

EM4PBGMN1N



Group mounted/Comp. Form 4 Type 2 neutral link
for outgoing section
when using 1-pole / 3-pole outgoing device

EM4PBGMN1N

EM4PBGMN1N

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For 25kA variant, in the MCCB part number, replace NZMN1... with NZMB1... and for 36kA variant replace NZMN1... with NZMC1...

EM4PBGMBP



Accessories - Group Mounted approach

Description	used for	Eaton list number
Blanking plate		EM4PBGMBP
Finger guards are mandatory to each outgoing device cable termination for compliance with Form 4 Type 6	NZM1 SPN	NZM1-1-XIPK
	NZM1 TPN (non-switched neutral)	NZM1-XIPK
	NZM1 4P (switched neutral)	NZM1-4-XIPK
Finger guards are mandatory to each outgoing device cable termination for compliance with Form 4 Type 6	NZM2 TPN (non-switched neutral)	NZM2-XIPK
	NZM2 4P (switched neutral)	NZM2-4-XIPK
	NZM3 TPN (non-switched neutral)	NZM3-XIPK
Finger guards are mandatory to each outgoing device cable termination for compliance with Form 4 Type 6	NZM3 4P (switched neutral)	NZM3-4-XIPK

NZM1-4-XIPK



Form 4 Type 6
group mounted



Possible outgoing arrangement of NZM1/NZM2 with or without option for NZM3 depending on form of separation

- Note a mixture of NZM1 and NZM2 breakers besides the NZM3 on fixed position can be fitted (not part of the table) - see Selection tool for permutations

Board reference / description	Type of feeder	Max. number of NZM1 (only) breakers can be fitted				Max. number of NZM2 (only) breakers can be fitted			
		Compartmentalised	Group Mounted	Compartmentalised	Group Mounted	Compartmentalised	Group Mounted	Compartmentalised	Group Mounted
		(2 pcs. of NZM3 not incorporated)		(2 pcs. of NZM3 incorporated)		(2 pcs. of NZM3 not incorporated)		(2 pcs. of NZM3 incorporated)	
EM4PB680 / 6-way board	NZM1 - 1P and N	8	12	2	4	–	–	–	–
	NZM1 - 3P and N / 4P	4	6	2	2	–	–	–	–
	NZM2 - 3P and N / 4P	–	–	–	–	4	4	–	2
EM4PB1280 / 12-way board	NZM1 - 1P and N	18	24	12	16	–	–	–	–
	NZM1 - 3P and N / 4P	10	12	6	8	–	–	–	–
	NZM2 - 3P and N / 4P	–	–	–	–	8	10	6	6
EM4PB1680 / 16-way board	NZM1 - 1P and N	20	32	14	20	–	–	–	–
	NZM1 - 3P and N / 4P	12	16	8	10	–	–	–	–
	NZM2 - 3P and N / 4P	–	–	–	–	10	12	6	8

Form 4 Type 6
compartmentalised



EM4PBCK



EM4PBCKN242



EM4PBCKN246



EM4PBCKN24BK



Compartmentalised kits to upgrade the standard Form 4 Type 6 group mounted design to higher form of separation

Minimum ordering requirement for compartmentalisation: Overall fitting + incomer + outgoer kit per device or unused way (select neutral link when 3-pole devices are used as outgoer)

Type of Compartmentalised kit	used for	Form of separation	Eaton list number
Overall fitting kit	MCCB Panelboard EM4PB... 400/800A	Form 4 Type 2 / Type 6	EM4PBCK
Incomer kit	NZMLW MCCB / NLW switch disconnecter	Form 4 Type 2 / Type 6	EM4PB80CKINC
Outgoer kit	NZM1 SPN	Form 4 Type 2	EM4PBCKN122
	NZM1 TPN / 4-pole		EM4PBCKN142
	NZM2 TPN / 4-pole		EM4PBCKN242
	NZM3 TPN / 4-pole		EM4PBCKN342
Outgoer kit	NZM1 SPN	Form 4 Type 6	EM4PBCKN126
	NZM1 TPN / 4-pole		EM4PBCKN146
	NZM2 TPN / 4-pole		EM4PBCKN246
	NZM3 TPN / 4-pole		EM4PBCKN346
Neutral link	NZM1 Neutral	Form 4 Type 6	EM4PBCKN1N
	NZM2 Neutral		EM4PBCKN2N
	NZM3 Neutral		EM4PBCKN3N
Unused way	—	Form 4 Type 2 / Type 6	EM4PBCKUW

Accessories - Compartmentalised approach

Description	Eaton list number
Blanking plate NZM1 SPN	EM4PBCKN12BK
Blanking plate NZM1 TPN / 4-pole	EM4PBCKN14BK
Blanking plate NZM2 TPN / 4-pole	EM4PBCKN24BK
Blanking plate NZM3 TPN / 4-pole	EM4PBCKN34BK

EM4PB68SXB



Cable extension boxes - side mounted

Description	Eaton list number
To fit 6/8-way panelboard EM4PB680 / EM4PB840	EM4PB68SXB
To fit 12/14-way panelboard EM4PB1280 / EM4PB1440	EM4PB1214SXB
To fit 16/18-way panelboard EM4PB1680 / EM4PB1840	EM4PB1618SXB

EM4PB250EX



Cable extension box - top/bottom mounted

Description	Eaton list number
250mm high	EM4PB250EX

EM4PB250EXDIN



DIN-rail extension box - top/bottom mounted

Description	Number of 18mm modular units	Eaton list number
250mm high - for housing DIN rail mounted command/control equipment like timers, contactors, etc.	2 banks of 15 (30 in total)	EM4PB250EXDIN

EM4PB300CX



Corner filler box - top/bottom mounted

Description	Eaton list number
250mm high / 300mm wide - for use where top/bottom or meter extension boxes are fitted in conjunction with cableways on the sides	EM4PB300CX

EM4PB100PL



Plinth options - bottom mounted

Description	Eaton list number
100mm high - for entire panelboard range	EM4PB100PL
100mm high / 300mm wide - for use where plinth option is fitted in conjunction with cableways on the sides	EM4PB100PLCX

EM4PBLE



Lifting eye kit

Description	Eaton list number
Set of 2 pieces mounted on the top of the panelboard	EM4PBLE

Transient voltage surge suppression units, vertical mounted either next to main incomer or inside cable extension box (lateral)

- Includes all necessary cables and connections to install the SPD. However it DOES NOT include the 4 Pole 63A NZM1 MCCB and Feeder Adaptor - which MUST BE ordered separately

Description	Eaton list number
SPD-type T1, T2, T3 in accordance with EN 61643-11, lightning protection classes III and IV in accordance with IEC 62305	EM4PBSPD34
SPD-type T1, T2, T3 in accordance with EN 61643-11, lightning protection classes I, II, III and IV in accordance with IEC 62306	EM4PBSPD1234

EM4PBKEL404



Earth leakage protection

- Kit comprises an adjustable Earth Leakage relay, CT and UVR to suit the incoming MCCB and associated connection cables / terminals
- Sensitivity adjustable from 30mA to 5A. Time delay adjustable from 0.02 to 5 seconds

Description	Eaton list number
Earth leakage protection add-on kit for 400A / 4-pole incomer	EM4PBKEL404
Earth leakage protection add-on kit for 800A / 4-pole incomer	EM4PBKEL804

Live side connection kit

- Kit for enabling the connection of cables to feed an externally mounted switch-disconnector-fuse to the live side of the incoming device for sprinkler circuits

Description	Eaton list number
Live side connection kit for 400/800A MCCB incoming device	EM4PBLSC

EM4PB250EXM



Incoming / outgoing metering equipment - digital

EM4PB68SXM



Description	Number of meter spaces in metering enclosure	Number of meter blanking plates included	Eaton list number
Incoming meter extension box - top/bottom mounted - 250mm high (meter not included)	1	0	EM4PB250EXM
Outgoing meter extension box - side mounted - to fit 6/8-way panelboard EM4PB680 / EM4PB840	6	5	EM4PB68SXM
Outgoing meter extension box - side mounted - to fit 12/14-way panelboard EM4PB1280 / EM4PB1440	8	7	EM4PB1214SXM
Outgoing meter extension box - side mounted - to fit 16/18-way panelboard EM4PB1680 / EM4PB1840	10	9	EM4PB1618SXM
Outgoing CT Kit (1 off required per metered outgoing TP way) to suit NZM1 frame MCCBs. 160A maximum rating. Includes CT to meter plug-in cable and meter to meter voltage supply linking cable with connectors			EM4PBCTMT160
Outgoing CT Kit (1 off required per metered outgoing TP way) to suit NZM2 frame MCCBs. 250A maximum rating. Includes CT to meter plug-in cable and meter to meter voltage supply linking cable with connectors			EM4PBCTMT250
Outgoing CT Kit (1 off required per metered outgoing TP way) to suit NZM3 frame MCCBs. 400A maximum rating. Includes CT to meter plug-in cable and meter to meter voltage supply linking cable with connectors.			EM4PBCTMT400
Voltage supply to meter tap off kit (includes protection fuses), one per panelboard required, irrespective of number of meters			EM4PBVT
Multifunction meter - as above but NOT MID certified			EPBMETER1
Three phase splitter box to allow separate monitoring of a three phase current transformer on individual energy meters			EPBCTMT3P
Extra long (2m) meter to meter voltage supply linking cable with connectors			EPBN3LKKTM
Extra long (2.5m) CT to meter plug-in cable			EPBN3LKRJ45
Spare blanking plate for unused meter ways in metering enclosure			EM96BP

EM4PBP680



MCCB pan assemblies

- Eaton MCCB pan assemblies offer a high degree of flexibility, suitable for inclusion in other factory built assemblies and as replacement for panelboard interiors.
- For incoming and outgoing device compatibility see associated panelboard details.

Description	Current rating (A)	No. of outgoing ways based on NZM1 TPN/4P group mounted *)	Eaton list number
Memshield 4 panelboard pan assembly 400A, 8-way, outgoing up to 250A	400	8	EM4PBP840
Memshield 4 panelboard pan assembly 400A, 14-way, outgoing up to 250A		14	EM4PBP1440
Memshield 4 panelboard pan assembly 400A, 18-way, outgoing up to 250A		18	EM4PBP1840
Memshield 4 panelboard pan assembly 800A, 6-way, outgoing up to 400A	800	6	EM4PBP680
Memshield 4 panelboard pan assembly 800A, 12-way, outgoing up to 400A		12	EM4PBP1280
Memshield 4 panelboard pan assembly 800A, 16-way, outgoing up to 400A		16	EM4PBP1680

*) see Selection tool for permutations

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Eaton's 4-pole panelboard system combines highest levels of electrical safety in a late stage with increased efficiency and reduced downtime thanks to system components available off the shelf. Watch our Memshield 4 video and learn more today.



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