

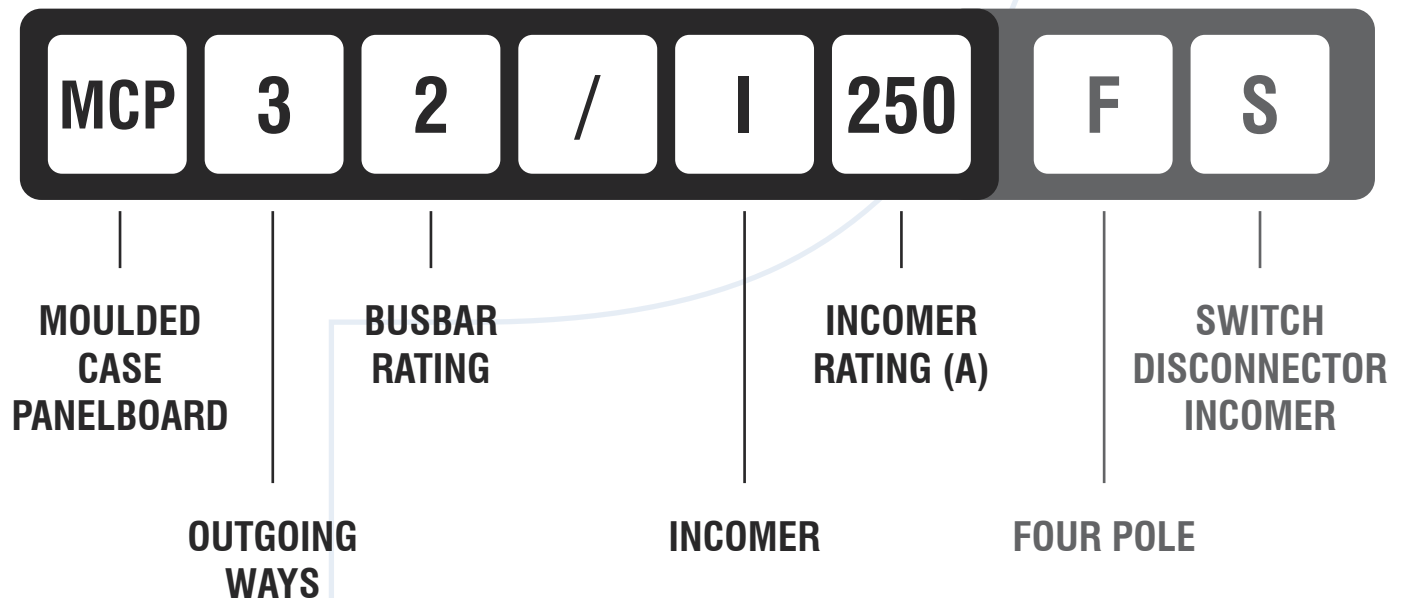


MC PANELBOARDS

MOULDED CASE CIRCUIT BREAKERS

INCLUDING CBX & MCX COMBINATION BOARDS

MC PANELBOARD PART CODES





Section Content

MC Panelboards

MCX & CBX Combination Boards

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MC PANELBOARD

KEY FEATURES:

**3-PHASE PANELBOARDS FULLY COMPLIANT TO
BS EN 61439 - 1 & 2**

FEATURES:

- 250A, 400A and 800A busbar MCCB Panelboards.
- Available from 3 to 18 triple pole outgoing ways as standard.
- Factory fitted incoming MCCB/Isolator up to 800A (3 & 4 pole).
- Outgoing MCCBs can be factory fitted upon request.
- High fault level rating, 36kA Icc.
- Removable end plates for easy glanding and ease of installation.
- Standard board width 900mm allowing easy cabling.
- Construction gives form 3b group mounted segregation to BS EN 61439-2.
- Constructed with 1.6mm thick steel with an epoxy paint finish to RAL7035.
- Other paint finishes available upon request.
- Key hole foot fixings for wall mounting.
- Lift off door hinges.



OFFERING A COMPREHENSIVE RANGE





1. Modern Design

Modern design allows ultimate flexibility with SP & TP MCCBs which can be fitted in any position.



2. Shrouded Neutral Terminal System

Fully shrouded neutral terminal system with clear perspex covers.



3. Removable Door

Door fitted over outgoing MCCBs as standard using high quality, steel pin hinges. Removable for ease of fitting.



4. Outgoing MCCBs

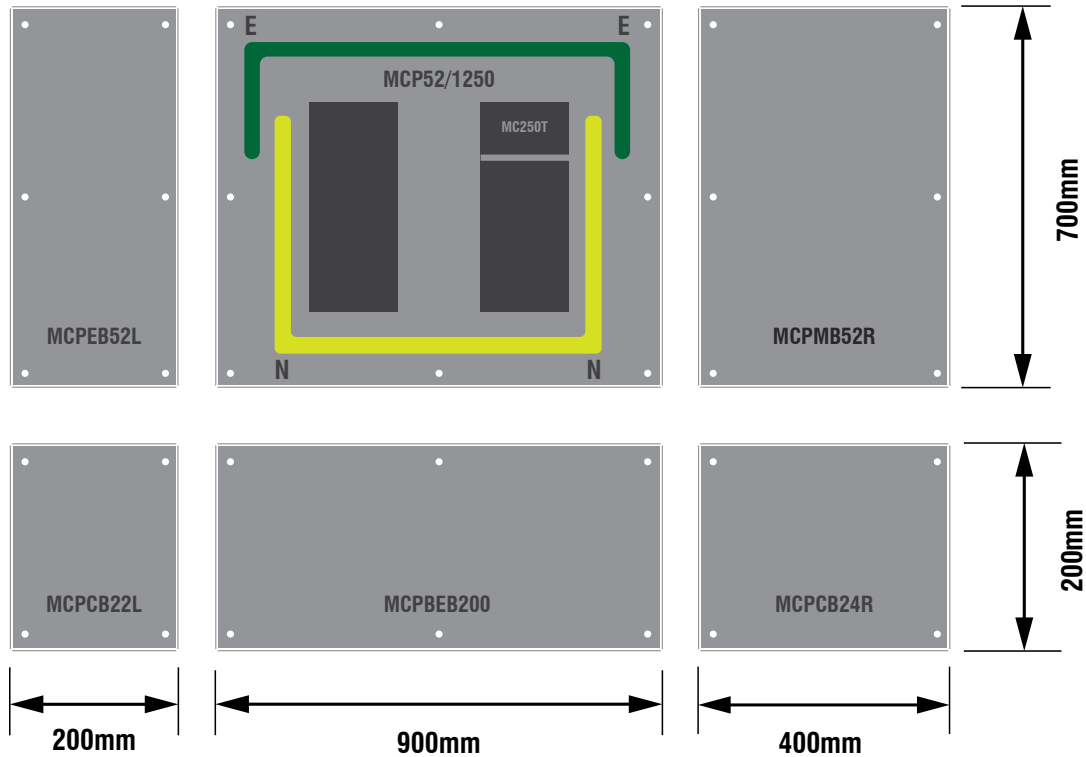
Outgoing MCCBs up to 250A TP and 200A SP.



5. Main Earth Termination

Main earthing termination point onto high conductivity copper plate and robust bonding throughout.

250A BUSBAR SYSTEM

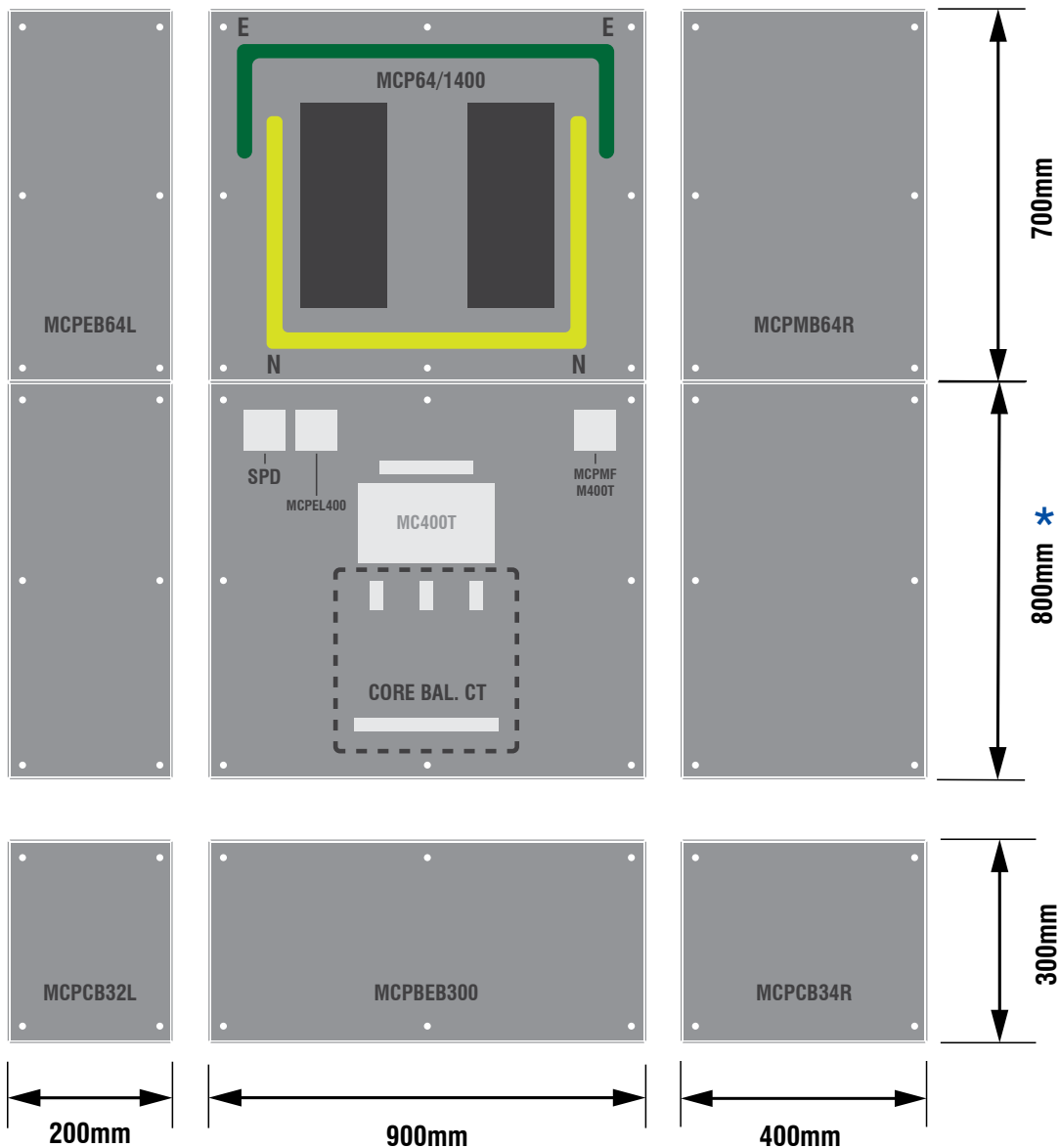


Arrangement diagrams show a typical layout using all enclosures.

- 200mm side enclosures (MCPEB52L and MCPEB64L) are intended to provide additional cabling space. Available as left or right hand fitting.
- 400mm side enclosures (MCPMB52R and MCPMB64R) are meter enclosures, provide facility for fitting Current Transformers and Meters.
- 900mm extension boxes (MCPBEB200 and MCPBEB300) can be fitted top or bottom of the panelboard.
- Corner boxes (MCPCB22L, MCPCB24R, MCPCB32L and MCPCB34R) are available to occupy the space between side and bottom extension boxes.

Full details of all components are listed in the following pages.

400A AND 800A BUSBAR SYSTEMS



* - 800mm height only up to 400A incomer. 950mm 500A - 800A. Depth 170mm/215mm over door.

MCCB PANELBOARDS - 250A BUSBAR 36kA ICC

- Available from 3 to 18 triple pole outgoing ways.
- Factory fitted incoming MCCB/switch disconnecter up to 250A 3/4 pole.
- These boards utilise the busbar ability to accept 250A MCCBs by using one way as the incoming position when a 3 pole incomer is acceptable.
- Reduced height where space is at a premium.
- Any rating of MCCB up to 250A can be used as the incomer.
- The incoming device is fitted at the top right as standard to allow cable spreading room, this can be moved to any position.
- Range of side extension boxes, side meter boxes, bottom extension boxes and corner boxes to suit 250A range of MC panels.
- Bottom extension boxes are available in 200mm or 300mm height as standard.
- Side extension and meter boxes are available in left/right hand and 3/4 pole versions sized to suit all 250A range MC panels.
- Corner boxes available when using side and bottom boxes to give a clean look.
- Meters, SPDs and Earth Leakage Units are also available.

Measurements: Millimetres (mm) unless stated otherwise

Outgoing Switchgear: Supplied separately

Outgoing MCCB's: Up to 250A TP and 200A SP

**WALL
MOUNTED**

**SIDE
HINGED
DOOR**

MCP32/I200



3 POLE 200A OR 250A MCCB INCOMER OR SWITCH DISCONNECTOR FITTED BOARDS

NO. of O/G WAYS	INCOMER RATING	CAT. NO. - 3 POLE	H	W	D
3	200A	MCP32/I200 (S)	500	900	170
5	200A	MCP52/I200 (S)	700	900	170
7	200A	MCP72/I200 (S)	700	900	170
11	200A	MCP112/I200 (S)	950	900	170
15	200A	MCP152/I200 (S)	1300	900	170
17	200A	MCP172/I200 (S)	1300	900	170
NO. of O/G WAYS	INCOMER RATING	CAT. NO. - 3 POLE	H	W	D
3	250A	MCP32/I250 (S)	500	900	170
5	250A	MCP52/I250 (S)	700	900	170
7	250A	MCP72/I250 (S)	700	900	170
11	250A	MCP112/I250 (S)	950	900	170
15	250A	MCP152/I250 (S)	1300	900	170
17	250A	MCP172/I250 (S)	1300	900	170

(S) - Add suffix 'S' for Switch Disconnecter Incomer Fitted Boards e.g. MCP32/I200S

**WALL
MOUNTED**

**EL
READY**

**SIDE
HINGED
DOOR**

**SPD
READY**

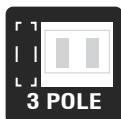
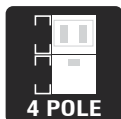
MCP62/I250F Order separate kit.



4 POLE 200A OR 250A MCCB INCOMER FITTED BOARDS

NO. of O/G WAYS	INCOMER RATING	CAT. NO. - 4 POLE	H	W	D
4	200A	MCP42/I200F (S)	1000	900	170
6	200A	MCP62/I200F (S)	1200	900	170
8	200A	MCP82/I200F (S)	1200	900	170
12	200A	MCP122/I200F (S)	1450	900	170
16	200A	MCP162/I200F (S)	1800	900	170
18	200A	MCP182/I200F (S)	1800	900	170
NO. of O/G WAYS	INCOMER RATING	CAT. NO. - 4 POLE	H	W	D
4	250A	MCP42/I250F (S)	1000	900	170
6	250A	MCP62/I250F (S)	1200	900	170
8	250A	MCP82/I250F (S)	1200	900	170
12	250A	MCP122/I250F (S)	1450	900	170
16	250A	MCP162/I250F (S)	1800	900	170
18	250A	MCP182/I250F (S)	1800	900	170

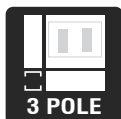
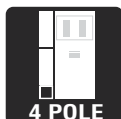
(S) - Add suffix 'S' for Switch Disconnecter Incomer Fitted Boards e.g. MCP42/I250S

**3 POLE****4 POLE****MCPEB32L**

SIDE EXTENSION BOX 3 & 4 POLE INCOMER

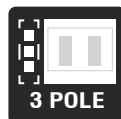
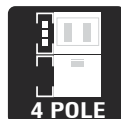
CAT. NO. (LEFT SIDE)	CAT. NO. (RIGHT SIDE)	H	W	D
MCPEB32L	MCPEB32R	500	200	170
MCPEB52L	MCPEB52R	700	200	170
MCPEB72L	MCPEB72R	700	200	170
MCPEB112L	MCPEB112R	950	200	170
MCPEB152L	MCPEB152R	1300	200	170
MCPEB172L	MCPEB172R	1300	200	170
MCPEB42FL*	MCPEB42FR*	1000	200	170
MCPEB62FL*	MCPEB62FR*	1200	200	170
MCPEB82FL*	MCPEB82FR*	1200	200	170
MCPEB122FL*	MCPEB122FR*	1450	200	170
MCPEB162FL*	MCPEB162FR*	1800	200	170
MCPEB182FL*	MCPEB182FR*	1800	200	170

* - To suit four pole boards.

**3 POLE****4 POLE****MCPCB34L**

CORNER EXTENSION BOX

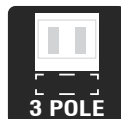
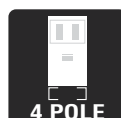
CAT. NO. (LEFT SIDE)	CAT. NO. (RIGHT SIDE)	H	W	D
MCPCB22L	MCPCB22R	200	200	170
MCPCB32L	MCPCB32R	300	200	170
MCPCB24L	MCPCB24R	200	400	170
MCPCB34L	MCPCB34R	300	400	170

**3 POLE****4 POLE****MCPMB52R**

SIDE METER EXTENSION BOX 3 & 4 POLE INCOMER

NO. of METER POSITIONS	CAT. NO. (LEFT SIDE)	CAT. NO. (RIGHT SIDE)	H	W	D
2	MCPMB32L	MCPMB32R	500	400	170
3	MCPMB52L	MCPMB52R	700	400	170
4	MCPMB72L	MCPMB72R	700	400	170
6	MCPMB112L	MCPMB112R	950	400	170
8	MCPMB152L	MCPMB152R	1300	400	170
9	MCPMB172L	MCPMB172R	1300	400	170
2	MCPMB42FL*	MCPMB42FR*	1000	400	170
3	MCPMB62FL*	MCPMB62FR*	1200	400	170
4	MCPMB82FL*	MCPMB82FR*	1200	400	170
6	MCPMB122FL*	MCPMB122FR*	1450	400	170
8	MCPMB162FL*	MCPMB162FR*	1800	400	170
9	MCPMB182FL*	MCPMB182FR*	1800	400	170

* - To suit four pole boards.

**3 POLE****4 POLE****MCPBEB200**

BOTTOM EXTENSION BOX

CAT. NO.	H	W	D
MCPBEB200	200	900	170
MCPBEB300	300	900	170

Bottom extension boxes can also be used as a top extension box.

MCCB PANELBOARDS - 400A BUSBAR 36kA ICC

- Available from 4 to 18 triple pole outgoing ways.
- Factory fitted incoming MCCB/switch disconnecter up to 400A 3/4 pole.
- Ample cabling space for incoming cables.
- Space next to incomer for metering, earth leakage protection and surge protection to monitor and protect whole board.
- Range of side extension boxes, side metering boxes, bottom extension boxes and corner boxes to suit 400A range of MC panels.
- Bottom extension boxes are available in 200mm or 300mm heights as standard.
- Side extension and meter extension boxes are available in left/right hand versions sized to suit all 400A range MC panels.
- Corner boxes available when using side and bottom extension boxes to give a clean look.
- Meters, SPDs and earth leakage units are also available.

Measurements: Millimetres (mm) unless stated otherwise

Outgoing Switchgear: Supplied separately

Outgoing MCCB's: Up to 250A TP and 200A SP



MCP44/I315 Order separate kit.



MCP84/I400S Order separate kit.



315A MCCB INCOMER FITTED BOARDS

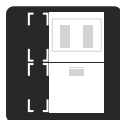
NO. of O/G WAYS	CAT. NO. 3 POLE	CAT. NO. 4 POLE	H	W	D
4	MCP44/I315	MCP44/I315F	1300	900	170
6	MCP64/I315	MCP64/I315F	1500	900	170
8	MCP84/I315	MCP84/I315F	1500	900	170
12	MCP124/I315	MCP124/I315F	1750	900	170
16	MCP164/I315	MCP164/I315F	2100	900	170
18	MCP184/I315	MCP184/I315F	2100	900	170

(S) - Add suffix 'S' for Switch Disconnecter Incomer option e.g. MCP84/I315S.
Triple pole only.

400A MCCB INCOMER OR SWITCH DISCONNECTOR FITTED BOARDS

NO. of O/G WAYS	CAT. NO. 3 POLE	CAT. NO. 4 POLE	H	W	D
4	MCP44/I400 (S)	MCP44/I400F (S)	1300	900	170
6	MCP64/I400 (S)	MCP64/I400F (S)	1500	900	170
8	MCP84/I400 (S)	MCP84/I400F (S)	1500	900	170
12	MCP124/I400 (S)	MCP124/I400F (S)	1750	900	170
16	MCP164/I400 (S)	MCP164/I400F (S)	2100	900	170
18	MCP184/I400 (S)	MCP184/I400F (S)	2100	900	170

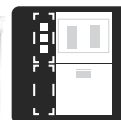
(S) - Add suffix 'S' for Switch Disconnecter Incomer option
e.g. MCP84/I400FS



MCPEB68L

SIDE EXTENSION BOX

CAT. NO. (LEFT SIDE)	H	W	D
MCPEB44L	1300	200	170
MCPEB64L	1500	200	170
MCPEB84L	1500	200	170
MCPEB124L	1750	200	170
MCPEB164L	2100	200	170
MCPEB184L	2100	200	170
CAT. NO. (RIGHT SIDE)	H	W	D
MCPEB44R	1300	200	170
MCPEB64R	1500	200	170
MCPEB84R	1500	200	170
MCPEB124R	1750	200	170
MCPEB164R	2100	200	170
MCPEB184R	2100	200	170



MCPMB84L

SIDE METER EXTENSION BOX

NO. of METER POSITION	CAT. NO. (LEFT SIDE)	H	W	D
2	MCPMB44L	1300	400	170
3	MCPMB64L	1500	400	170
4	MCPMB84L	1500	400	170
6	MCPMB124L	1750	400	170
8	MCPMB164L	2100	400	170
9	MCPMB184L	2100	400	170
NO. of METER POSITION	CAT. NO. (RIGHT SIDE)	H	W	D
2	MCPMB44R	1300	400	170
3	MCPMB64R	1500	400	170
4	MCPMB84R	1500	400	170
6	MCPMB124R	1750	400	170
8	MCPMB164R	2100	400	170
9	MCPMB184R	2100	400	170



MCPCB34L



CORNER EXTENSION BOX

CAT. NO. (LEFT SIDE)	CAT. NO. (RIGHT SIDE)	H	W	D
MCPCB22L	MCPCB22R	200	200	170
MCPCB32L	MCPCB32R	300	200	170
MCPCB24L	MCPCB24R	200	400	170
MCPCB34L	MCPCB34R	300	400	170



MCPBEB200



BOTTOM EXTENSION BOX

CAT. NO.	H	W	D
MCPBEB200	200	900	170
MCPBEB300	300	900	170

Bottom extension boxes can also be used as a top extension box

MCCB PANELBOARDS - 800A BUSBAR 36kA ICC

- Available from 4 to 18 triple pole outgoing ways.
 - Factory fitted incoming MCCB/switch disconnecter up to 800A 3/4 pole.
 - Ample cabling space for incoming cables.
 - Space next to incomer for metering, earth leakage protection and surge protection to monitor and protect whole board.
 - Range of side extension boxes, side metering boxes, bottom extension boxes and corner boxes to suit 800A range of MC panels.
- Bottom extension boxes are available in 200mm or 300mm heights as standard.
 - Side extension and meter extension boxes are available in left/right hand versions sized to suit all 800A range MC panels.
 - Corner boxes available when using side and bottom extension boxes to give a clean look.
 - Meters, SPDs and earth leakage units are also available.
- Measurements:** Millimetres (mm) unless stated otherwise

Outgoing Switchgear: Supplied separately

Outgoing MCCB's: Upto 250A TP and 200A SP

**EL
READY** **SPD
READY**

Order separate kit.

**WALL
MOUNTED** **SIDE
HINGED
DOOR**

MCP48/I500



500A MCCB INCOMER FITTED BOARDS

NO. of O/G WAYS	CAT. NO. 3 POLE	CAT. NO. 4 POLE	H	W	D
4	MCP48/I500	MCP48/I500F	1450	900	170
6	MCP68/I500	MCP68/I500F	1650	900	170
8	MCP88/I500	MCP88/I500F	1650	900	170
12	MCP128/I500	MCP128/I500F	1900	900	170
16	MCP168/I500	MCP168/I500F	2250	900	170
18	MCP188/I500	MCP188/I500F	2250	900	170

**EL
READY** **SPD
READY**

Order separate kit.

MCP48/I630S

(S) - Add suffix 'S' for Switch Disconnecter Incomer option e.g. MCP88/I630S.



630A MCCB INCOMER OR SWITCH DISCONNECTER FITTED BOARDS

NO. of O/G WAYS	CAT. NO. 3 POLE	CAT. NO. 4 POLE	H	W	D
4	MCP48/I630 (S)	MCP48/I630F (S)	1450	900	170
6	MCP68/I630 (S)	MCP68/I630F (S)	1650	900	170
8	MCP88/I630 (S)	MCP88/I630F (S)	1650	900	170
12	MCP128/I630 (S)	MCP128/I630F (S)	1900	900	170
16	MCP168/I630 (S)	MCP168/I630F (S)	2250	900	170
18	MCP188/I630 (S)	MCP188/I630F (S)	2250	900	170

**EL
READY** **SPD
READY**

Order separate kit.

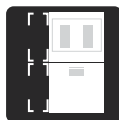
MCP128/I800F

(S) - Add suffix 'S' for Switch Disconnecter Incomer option e.g. MCP88/I800S. Triple pole only.



800A MCCB INCOMER OR SWITCH DISCONNECTER FITTED BOARDS

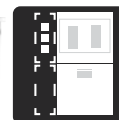
NO. of O/G WAYS	CAT. NO. 3 POLE	CAT. NO. 4 POLE	H	W	D
4	MCP48/I800 (S)	MCP48/I800F	1450	900	170
6	MCP68/I800 (S)	MCP68/I800F	1650	900	170
8	MCP88/I800 (S)	MCP88/I800F	1650	900	170
12	MCP128/I800 (S)	MCP128/I800F	1900	900	170
16	MCP168/I800 (S)	MCP168/I800F	2250	900	170
18	MCP188/I800 (S)	MCP188/I800F	2250	900	170



MCPEB68L

SIDE EXTENSION BOX

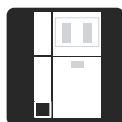
CAT. NO. (LEFT SIDE)	H	W	D
MCPEB48L	1450	200	170
MCPEB68L	1650	200	170
MCPEB88L	1650	200	170
MCPEB128L	1900	200	170
MCPEB168L	2250	200	170
MCPEB188L	2250	200	170
CAT. NO. (RIGHT SIDE)	H	W	D
MCPEB48R	1450	200	170
MCPEB68R	1650	200	170
MCPEB88R	1650	200	170
MCPEB128R	1900	200	170
MCPEB168R	2250	200	170
MCPEB188R	2250	200	170



MCPMB84L

SIDE METER EXTENSION BOX

NO. of METER POSITION	CAT. NO. (LEFT SIDE)	H	W	D
2	MCPMB48L	1450	400	170
3	MCPMB68L	1650	400	170
4	MCPMB88L	1650	400	170
6	MCPMB128L	1900	400	170
8	MCPMB168L	2250	400	170
9	MCPMB188L	2250	400	170
NO. of METER POSITION	CAT. NO. (RIGHT SIDE)	H	W	D
2	MCPMB48R	1450	400	170
3	MCPMB68R	1650	400	170
4	MCPMB88R	1650	400	170
6	MCPMB128R	1900	400	170
8	MCPMB168R	2250	400	170
9	MCPMB188R	2250	400	170



MCPCB34L

CORNER EXTENSION BOX

CAT. NO. (LEFT SIDE)	CAT. NO. (RIGHT SIDE)	H	W	D
MCPCB22L	MCPCB22R	200	200	170
MCPCB32L	MCPCB32R	300	200	170
MCPCB24L	MCPCB24R	200	400	170
MCPCB34L	MCPCB34R	300	400	170



MCPBEB200

BOTTOM EXTENSION BOX

CAT. NO.	H	W	D
MCPBEB200	200	900	170
MCPBEB300	300	900	170



Bottom extension boxes can also be used as a top extension box.

METERING

- Tariff and non-tariff multifunction meters.
- Fitting into side meter boxes for outgoing devices or 250A TP incomers.
- Fitted next to incomer on 250A 4P, 400A and 800A panelboards.

Tariff or MID approved meters are used in situations where it is necessary to charge clients in a Landlord – Tenant type arrangement.

The landlord uses the individual meters to charge clients for their energy usage. These meters have a higher accuracy class than Non-Tariff meters.

Non-Tariff (check) meters are used in situations where the electricity bill is apportioned to different departments within a company but there is only one company paying the bill.



1&3
PHASE

MCPMFM063T

**NON-TARIFF
MULTIFUNCTION
MULTIMETERS**

To be fitted in meter extension boxes to monitor outgoing / incoming circuits up to 250A. e.g. 6 way panelboard c/w 400A TP MCCB incomer (MCP64/I400). Compatible meter extension boxes could be fitted on left (MCPMB64L) or right (MCPMB64R). Associated switchgear could be 5 x 100A TP MCCBs (MC100T) and 5 x digital multimeters (MCPMFM100T).

AMPERAGE	CAT. NO. (3 PHASE)	CAT. NO. (1 PHASE)
63A	MCPMFM063T	MCPMFM063S
100A	MCPMFM100T	MCPMFM100S
125A	MCPMFM125T	MCPMFM125S
160A	MCPMFM160T	MCPMFM160S
200A	MCPMFM200T	MCPMFM200S
250A	MCPMFM250T	-

MCPMFM315T

**NON-TARIFF
MULTIFUNCTION
MULTIMETERS**



Fitted adjacent to main incomer to monitor total panelboard power usage. No meter extension box required.

AMPERAGE	CAT. NO. (3 PHASE)
315A	MCPMFM315T
400A	MCPMFM400T
500A	MCPMFM500T
630A	MCPMFM630T
800A	MCPMFM800T



1&3
PHASE

MCPMFM063TMID

**MID/TARIFF
MULTIMETERS**

To be fitted in meter extension boxes to monitor outgoing / incoming circuits up to 250A. e.g. 6 way panelboard c/w 400A TP MCCB incomer (MCP64/I400). Compatible meter extension boxes could be fitted on left (MCPMB64L) or right (MCPMB64R). Associated switchgear could be 5 x 125A TP MCCBs (MC125T) and 5 x digital multimeters (MCPMFM125TMID).

AMPERAGE	CAT. NO. (3 PHASE)	CAT. NO. (1 PHASE)
63A	MCPMFM063TMID	MCPMFM063SMID
100A	MCPMFM100TMID	MCPMFM100SMID
125A	MCPMFM125TMID	MCPMFM125SMID
160A	MCPMFM160TMID	MCPMFM160SMID
200A	MCPMFM200TMID	MCPMFM200SMID
250A	MCPMFM250TMID	-

MCPMFM315MID

**MID/TARIFF
MULTIMETERS**



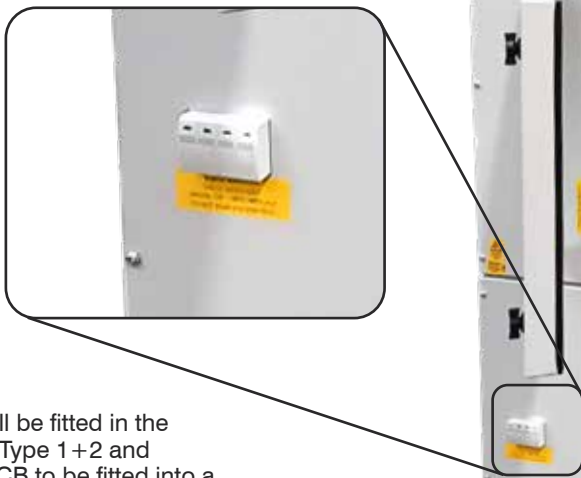
To be fitted adjacent to main incomer to monitor total panelboard power usage. No meter extension box required.

AMPERAGE	CAT. NO. (3 PHASE)
315A	MCPMFM315TMID
400A	MCPMFM400TMID
500A	MCPMFM500TMID
630A	MCPMFM630TMID
800A	MCPMFM800TMID

SURGE PROTECTION DEVICES

3 PHASE + N (4 POLE)

SPD
KITS



For 250A TP incomer boards, the SPD will be fitted in the included 300 mm bottom extension box. Type 1+2 and Type 2 device kits include a 125A TP MCCB to be fitted into a board taking an outgoing way to feed SPD.

For 250A 4P incomer boards, the SPD will be fitted adjacent to the incoming device. Type 1+2 and Type 2 device kits include a 125A TP MCCB to be fitted into a board taking an outgoing way to feed SPD.

For 315 - 800A TP and 4P incomer boards, the SPD will be fitted adjacent to the incoming device. Kits include a 160A TP MCCB to be fitted into a board taking an outgoing way to feed SPD.

Type 1: Protection against the effects of lightning.
Type 2: Protection against the effects of man-made surges on the mains supply system.



MCP84/1400 & MCPT12/800

INCOMER AMPERAGE	INCOMER POLES	TYPE	PROTECTIVE DEVICE	CAT. NO.	H	W	D
≤250A	3	Type 1+2	125A TP MCCB	MCPT12/250	300	900	170
≤250A	3	Type 2	125A TP MCCB	MCPT2/250	300	900	170
≤250A	4	Type 1+2	125A TP MCCB	MCPT12/250F	Fitted adjacent to incomer		
≤250A	4	Type 2	125A TP MCCB	MCPT2/250F			
>315 - 800A	3 & 4	Type 1+2	160A TP MCCB	MCPT12/800			
>315 - 800A	3 & 4	Type 2	160A TP MCCB	MCPT2/800			

EARTH LEAKAGE SYSTEMS

- It is intended that the earth leakage units are under the supervision of instructed or skilled persons.
- Earth leakage relay has adjustable trip current and time settings.
- The MCCB is tripped via its integral shunt trip coil.
- The full breaking capacity of the MCCB is retained.
- Type A & B filtering.

Measurements: Millimetres (mm) unless stated otherwise



MCPEL100

EARTH LEAKAGE UNITS

To be fitted in meter extension boxes to monitor outgoing / incoming circuits earth leakage up to 250A. e.g. 6 way panelboard c/w 400A TP MCCB incomer (MCP64/ I400). Compatible meter extension boxes could be fitted on left (MCPMB64L) or right (MCPMB64R). Associated switchgear could be 5 x 100A TP MCCBs (MC100T) and 5 x earth leakage units (MCPEL100).



AMPERAGE	CAT. NO.
100A	MCPEL100
125A	MCPEL125
160A	MCPEL160
200A	MCPEL200
250A	MCPEL250



Fitted adjacent to main incomer to monitor total panelboard earth leakage. No meter extension box required.

AMPERAGE	CAT. NO.
400A	MCPEL400
630A	MCPEL630



MCEL200T

Triple pole 36kA moulded case circuit breaker in steel enclosure fitted with earth fault relay device.

STAND ALONE EARTH LEAKAGE UNITS

AMPERAGE	CAT. NO. (3 POLE+N)	CAT. NO. (4 POLE)	MIN. SENSITIVITY AMPS	CT DIAMETER (mm)	H	W	D
100A	MCEL100T	MCEL100F	0.03	70	700	300	170
125A	MCEL125T	MCEL125F	0.03	70	700	300	170
160A	MCEL160T	MCEL160F	0.03	70	700	300	170
200A	MCEL200T	MCEL200F	0.03	70	700	300	170
250A	MCEL250T	MCEL250F	0.1	120	950	400	170
315A	MCEL315T	MCEL315F	0.1	120	950	400	170
400A	MCEL400T	MCEL400F	0.1	120	950	400	170
500A	MCEL500T	MCEL500F	0.1	120	950	400	170
630A	MCEL630T	MCEL630F	0.1	120	950	400	170

EARTH LEAKAGE SYSTEMS

STAND ALONE EARTH LEAKAGE UNITS



**TYPE
B**
MCEL160FB

AMPERAGE	CAT. NO. (4 POLE)		MIN. SENSITIVITY AMPS	CT DIAMETER (mm)	H	W	D
63A	MCEL063FB	NEW!	0.03	60	500	300	170
80A	MCEL080FB	NEW!	0.03	60	500	300	170
100A	MCEL100FB	NEW!	0.03	60	700	300	170
125A	MCEL125FB	NEW!	0.03	60	700	300	170
160A	MCEL160FB	NEW!	0.03	60	700	300	170
200A	MCEL200FB	NEW!	0.03	60	700	300	170
250A	MCEL250FB	NEW!	0.03	60	950	400	170
315A	MCEL315FB	NEW!	0.1	90	950	400	170
400A	MCEL400FB	NEW!	0.1	90	950	400	170
500A	MCEL500FB	NEW!	0.1	90	950	400	170
630A	MCEL630FB	NEW!	0.1	90	950	400	170

**3&4
POLE**

MCE100T IP3X ENCLOSED MCCBs

Triple pole 36kA moulded case circuit breaker in IP3X steel enclosures.



AMPERAGE	CAT. NO. (3 POLE)	CAT. NO. (4 POLE)	H	W	D
63A	MCE063T	MCE063F	400	300	170
80A	MCE080T	MCE080F	400	300	170
100A	MCE100T	MCE100F	400	300	170
125A	MCE125T	MCE125F	700	300	170
160A	MCE160T	MCE160F	700	300	170
200A	MCE200T	MCE200F	700	300	170
250A	MCE250T	MCE250F	950	400	170
315A	MCE315T	MCE315F	950	400	170
400A	MCE400T	MCE400F	950	400	170
500A	MCE500T	MCE500F	950	400	170
630A	MCE630T	MCE630F	950	400	170
800A	MCE800T	MCE800F	1300	500	300

**3&4
POLE**

MCENC1 ENCLOSURES TO SUIT INDIVIDUAL MCCBs

3 pole units will accept 1x SP or 1x TP MCCB. 4 pole units will accept 1x 4P MCCB only. When fitting a SP MCCB, 2 blanking modules (MCCBM1) will also need to be installed. 250A MCCB must be large frame size MCCB (MC250TLF, MC250FLF).



AMPERAGE	CAT. NO.	H	W	D
16A - 100A	MCENC1	400	300	170
125A - 200A	MCENC2	700	300	170
250A - 630A	MCENC6	950	400	170
400A - 630A (3P Electronic only)	MCENC6TE	950	400	170
800A	MCENC8	1300	500	300
16A - 100A	MCENC1F*	400	300	170
125A - 200A	MCENC2F*	700	300	170
250A - 630A	MCENC6F*	950	400	170
800A	MCENC8F*	1300	500	300

* - Four pole option.

ACCESSORIES

230V
AC



MCST3/4P250



MCA3/4P250

SHUNT TRIP UNITS

MCCB TYPE	RATING	SHUNT TRIP CAT.NO	DEVICE
MC016T to MC250T (Therm/mag)	230V AC	MCST3/4P250*	3 pole
MC063FA to MC250FA (Therm/mag)	230V AC	MCST3/4P250*	4 pole
MC040TE to MC250TE (Electronic)	230V AC	MCST3/4P250*	3 pole
MC040FAE to MC250FAE (Electronic)	230V AC	MCST3/4P250*	4 pole
MC250TLF (Therm/ mag)	230V AC	MCST3P630**	3 pole
MC315T to MC630T (Therm/ mag)	230V AC	MCST3P630**	3 pole
MC250FALF (Therm/ mag)	230V AC	MCST4P630*	4 pole
MC315FA to MC630FA (Therm/mag)	230V AC	MCST4P630*	4 pole
MC315TE to MC630TE (Electronic)	230V AC	MCST4P630*	3 pole
MC315FAE to MC630FAE (Electronic)	230V AC	MCST4P630*	4 pole
MC800T	230V AC	MCST3/4P800**	3 pole
MC800F	230V AC	MCST3/4P800**	4 pole

*wired in series with auxiliary contact (ordered separately).
** integral contact

AUXILIARY CONTACTS

MCCB TYPE	RATING	AUXILIARY CONTACT CAT. NO.	DEVICE
MC016T to MC250T (Therm/mag)	230V AC	MCA3/4P250	3 pole
MC063FA to MC250FA (Therm/mag)	230V AC	MCA3/4P250	4 pole
MC040TE to MC250TE (Electronic)	230V AC	MCA3/4P250	3 pole
MC040FAE to MC250FAE (Electronic)	230V AC	MCA3/4P250	4 pole
MC250TLF (Therm/ mag)	230V AC	MCA3P630	3 pole
MC315T to MC630T (Therm/ mag)	230V AC	MCA3P630	3 pole
MC250FALF (Therm/ mag)	230V AC	MCA4P630	4 pole
MC315FA to MC630FA (Therm/mag)	230V AC	MCA4P630	4 pole
MC315TE to MC630TE (Electronic)	230V AC	MCA4P630	3 pole
MC315FAE to MC630FAE (Electronic)	230V AC	MCA4P630	4 pole
MC800T	230V AC	Not available	3 pole
MC800F	230V AC	Not available	4 pole



MCLK120

CABLE REDUCING LUGS

DESCRIPTION	CAT. NO.
120 mm ² lug connection kit for MC016T-MC250T	MCLK120
150 mm ² lug connection kit for MC016T-MC250T	MCLK150
185 mm ² lug connection kit for MC016T-MC250T	MCLK185

UNDervoltage RELEASE

MCCB TYPE	RATING	UVR CAT.NO	DEVICE
MC016T - MC250T	230V	MC230UV	3 pole
MC040TE - MC250TE	230V	MC230UV	3 pole
MC063FA - MC250FA	230V	MC230UV	4 pole
MC040FAE - MC250FAE	230V	MC230UV	4 pole



MCCBM1



MCNUTM8

ADDITIONAL ACCESSORIES

DESCRIPTION	CAT. NO.
Padlocking device - for 3P & adj 4P MCCBs (16A to 630A)	MCPD
SP MCCB blank	MCCBM1
Incomer door	MCPID
M8 nut insert and bolt for MC016T-MC250T, set of 3	MCNUTM8
Key lock for door	XLKL
MC016-MC250T/E long terminal shield	MCLTS
MC063-MC250FA/FAE long terminal shield	MCLTS4P
MC250FALF-MC630FA/FAE long terminal shield	MCLTS4P630

CUSTOM BUILT MCCB BOARDS



General construction to BSEN 61439 - 1 & 2

- Option of lockable doors for all MCCBs and MCB housings.
- Segregated cableways to suit specific cable sizes and types. Width and depth to suit.
- Feeder MCCB busbar section accepts MCCBs rated up to 250A as standard. Larger rated outgoing MCCBs can be factory fitted to busbar systems (upto 800A).
- Distribution busbars up to 800A.
- Standard enclosures to IP3X.
- IP65 enclosures are also available.
- Options of main incomer as 3 or 4 pole switching.
- Options of MCB or multi-function distribution boards.
- Busbar ratings from 200A to 800A.

Additional facilities that can be included in custom built panels:

- Changeover systems
- Sealable supply authority chambers
- Tariff and non-tariff kWh metering
- Multi-function metering
- Surge suppression

Contact our quotation department with your requirements

MCCB KEY FEATURES:

MOULDED CASE CIRCUIT BREAKERS
BS EN 60947 1 - 2

FEATURES:

- The moulded case circuit breakers are housed in fibre reinforced thermoset polyester that combines ruggedness, high dielectric and mechanical strength.
- High quality silver alloy contacts (with elements of tungsten and graphite) ensure both high conductivity at point of contact and minimal pitting during switching for a longer contact life.
- Positive contact indication is by means of the operating lever position.



**OFFERING A
COMPREHENSIVE
RANGE**



1. Technical Detail

2. Box Clamp Terminals

3. Fully Shrouded Terminals

4. Trip Position



1. Technical Detail

Full technical detail, markings and adjustable parameters clearly identified.



2. Box Clamp Terminals

Box clamp terminals for connection of cables up to 120mm² (up to MC250T).



3. Fully Shrouded Terminals

Fully shrouded terminals.



4. Trip Position

Mid-trip position of MCCB dolly.



5. Phase Barriers

Phase barriers supplied with lug connected MCCBs.

SINGLE POLE MCCBs

Single pole 36kA moulded case circuit breakers



MC125S

CURRENT RATING (A)	NO. of POLES	kA RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
16	SP	36	F	500A	120 mm²	MC016S
20	SP	36	F	500A	120 mm²	MC020S
25	SP	36	F	500A	120 mm²	MC025S
32	SP	36	F	500A	120 mm²	MC032S
40	SP	36	F	500A	120 mm²	MC040S
50	SP	36	F	500A	120 mm²	MC050S
63	SP	36	F	500A	120 mm²	MC063S
80	SP	36	F	800A	120 mm²	MC080S
100	SP	36	F	1000A	120 mm²	MC100S
125	SP	36	F	1250A	120 mm²	MC125S
160	SP	36	F	1600A	120 mm²	MC160S
200	SP	36	F	2000A	120 mm²	MC200S

TRIPLE POLE MCCBs

Triple pole 36kA moulded case circuit breakers



MC032T

CURRENT RATING (A)	NO. of POLES	kA RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
16	TP	36	A (0.8-1xIn)	250A	120 mm²	MC016T
20	TP	36	A (0.8-1xIn)	250A	120 mm²	MC020T
25	TP	36	A (0.8-1xIn)	250A	120 mm²	MC025T
32	TP	36	A (0.8-1xIn)	320A	120 mm²	MC032T
40	TP	36	A (0.8-1xIn)	400A	120 mm²	MC040T
50	TP	36	A (0.8-1xIn)	500A	120 mm²	MC050T
63	TP	36	A (0.8-1xIn)	630A	120 mm²	MC063T
80	TP	36	A (0.8-1xIn)	800A	120 mm²	MC080T
100	TP	36	A (0.8-1xIn)	1000A	120 mm²	MC100T
125	TP	36	A (0.8-1xIn)	1250A	120 mm²	MC125T
160	TP	36	A (0.8-1xIn)	1600A	120 mm²	MC160T
200	TP	36	A (0.8-1xIn)	A (5-10xIn)	120 mm²	MC200T
250	TP	36	A (0.8-1xIn)	A (5-10xIn)	120 mm²	MC250T

LARGE FRAME TRIPLE POLE MCCBs

MC250TLF



CURRENT RATING (A)	NO. of POLES	kA RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
250	TP	36	A (0.8-1xIn)	A (5-10xIn)	Lugged(M12)	MC250TLF
315	TP	36	A (0.8-1xIn)	A (4-8xIn)	Lugged(M12)	MC315T
400	TP	36	A (0.8-1xIn)	A (4-8xIn)	Lugged(M12)	MC400T
500	TP	36	A (0.8-1xIn)	A (4-8xIn)	Lugged(M12)	MC500T
630	TP	36	A (0.8-1xIn)	A (4-8xIn)	Lugged(M12)	MC630T
800	TP	50	A (0.8-1xIn)	A (4-8xIn)	Lugged(M12)	MC800T

Large Frame TP MCCBs can not be fitted as an outgoing device. MC250TLF must be used when using as an individual cable in, cable out MCCB device.



FOUR POLE MCCBs

Four Pole 36 - 50kA Moulded Case Circuit Breakers

CURRENT RATING (A)	NO. of POLES	kA RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
63	FP	36	A 0-8-1	630A	Tunnel-120mm ²	MC063FA
100	FP	36	A 0-8-1	1000A	Tunnel-120mm ²	MC100FA
125	FP	36	A 0-8-1	1250A	Tunnel-120mm ²	MC125FA
160	FP	36	A 0-8-1	1600A	Tunnel-120mm ²	MC160FA
200	FP	36	A 0-8-1	5-10X	Tunnel-120mm ²	MC200FA
250	FP	36	A 0-8-1	5-10X	Tunnel-120mm ²	MC250FA
250	FP	50	A 0-8-1	5-10X	Lugged(M12)	MC250FALF
315	FP	50	A 0-8-1	5-10X	Lugged(M12)	MC315FA
400	FP	50	A 0-8-1	5-10X	Lugged(M12)	MC400FA
500	FP	50	A 0-8-1	5-10X	Lugged(M12)	MC500FA
630	FP	50	A 0-8-1	5-10X	Lugged(M12)	MC630FA
800	FP	50	F 800A	A (8-10xIn)	Lugged(M12)	MC800F

ELECTRONIC MCCBs



CURRENT RATING (A)	NO. of POLES	kA RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
40	3P	36	lo 0.4 – 1. lr 0.9 – 0.98	1.5 – 10x	120mm ²	MC040TE
100	3P	36	lo 0.4 – 1. lr 0.9 – 0.98	1.5 – 10x	120mm ²	MC100TE
160	3P	36	lo 0.4 – 1. lr 0.9 – 0.98	1.5 – 10x	120mm ²	MC160TE
250	3P	36	lo 0.4 – 1. lr 0.9 – 0.98	1.5 – 10x	120mm ²	MC250TE
400	3P	36	lo 0.5 – 1. lr 0.8 – 1	2 – 10x	240mm ² (M12)	MC400TE
630	3P	36	lo 0.5 – 1. lr 0.8 – 1	2 – 10x	240mm ² (M12)	MC630TE
1000	3P	70	0.4 – 1 x In	1.5 - 12xIn	Lugged	MC1000T
1250	3P	70	0.4 – 1 x In	1.5 - 12xIn	Lugged	MC1250T
1600	3P	70	0.4 – 1 x In	1.5 - 12xIn	Lugged	MC1600T
CURRENT RATING (A)	NO. of POLES	kA RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
40	4P	36	lo 0.4 – 1. lr 0.9 – 0.98	1.5 – 10x	120mm ²	MC040FAE
100	4P	36	lo 0.4 – 1. lr 0.9 – 0.98	1.5 – 10x	120mm ²	MC100FAE
160	4P	36	lo 0.4 – 1. lr 0.9 – 0.98	1.5 – 10x	120mm ²	MC160FAE
250	4P	36	lo 0.4 – 1. lr 0.9 – 0.98	1.5 – 10x	120mm ²	MC250FAE
400	4P	36	lo 0.5 – 1. lr 0.8 – 1	2 – 10x	240mm ² (M12)	MC400FAE
630	4P	36	lo 0.5 – 1. lr 0.8 – 1	2 – 10x	240mm ² (M12)	MC630FAE

SWITCH DISCONNECTOR

NON-AUTO MCCBs



MC400TNA

CURRENT RATING (A)	NO. of POLES	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
200	TP	-	-	Tunnel-120mm²	MC200TNA
250	TP	-	-	Tunnel-120mm²	MC250TNA
400	TP	-	-	Lugged(M12)	MC400TNA
630	TP	-	-	Lugged(M12)	MC630TNA
800	TP	-	-	Lugged(M12)	MC800TNA
CURRENT RATING (A)	NO. of POLES	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
200	FP	-	-	Tunnel-120mm2	MC200FNA
250	FP	-	-	Tunnel-120mm2	MC250FNA
400	FP	-	-	Lugged(M12)	MC400FNA
630	FP	-	-	Lugged(M12)	MC630FNA

MOTOR RATED MCCBs



MC100TMR

Triple pole 36kA motor rated
moulded case circuit breakers

MOTOR RATING KW (APPROX.)	MCCB AMPS	kA RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
30	63A	36	A (0.7-1x In)	15xIn	120 mm²	MC063TMR
37	80A	36	A (0.7-1x In)	15xIn	120 mm²	MC080TMR
51	100A	36	A (0.7-1x In)	15xIn	120 mm²	MC100TMR
63	125A	36	A (0.7-1x In)	15xIn	120 mm²	MC125TMR
80	160A	36	A (0.7-1x In)	15xIn	120 mm²	MC160TMR
90	200A	36	A (0.7-1x In)	10-15xIn	120 mm²	MC200TMR
110	250A	36	A (0.7-1x In)	10-15xIn	120 mm²	MC250TMR

TECHNICAL INFORMATION

SUPPLY kVA RATINGS OF MCCBS FOR GENERAL POWER DISTRIBUTION LOADS



MC016T

OUTGOING MCCB SELECTION

RATING	LOAD DEMAND (kVA)	CAT. NO. (TP MCCB)
16A	11	MC016T
20A	14	MC020T
25A	17	MC025T
32A	22	MC032T
40A	27	MC040T
50A	34	MC050T
63A	43	MC063T
80A	55	MC080T
100A	69	MC100T
125A	86	MC125T
160A	110	MC160T
200A	138	MC200T
250A	173	MC250T



MC400T

RECOMMENDATIONS ARE BASED ON A 400V PH-PH 3 PHASE SYSTEM - INCOMING MAIN MCCB

RATING	LOAD DEMAND (kVA)	CAT. NO. (TP MCCB)
315A	218	MC315T
400A	277	MC400T
500A	346	MC500T
630A	436	MC630T
800A	554	MC800T

MCX KEY FEATURES:

3-PHASE DISTRIBUTION BOARDS

FEATURES:

- The MCX range 'combination board' brings together the standard TP&N MCB distribution board with typical 17.5mm module MCBs with the opportunity to fit larger amperage MCCBs up to 160A.
- Accepts MCBs up to 63A and RCBOs up to 63A (17.5mm wide module).
- Accepts MCCBs 16A to 160A.
- Switch disconnecter fitted as standard.
- Manufactured to BSEN 61439 - Part 1 & 3.



CBX KEY FEATURES:

3-PHASE DISTRIBUTION BOARDS

- The CBX range 'combination board' brings together the standard TP&N MCB distribution board with typical 17.5mm module MCBs with the opportunity to fit larger amperage MCBs up to 125A rated.
- Accepts MCBs up to 63A and RCBOs up to 63A (17.5mm wide module).
- Accepts MCBs 80A to 125A (26.3mm wide module).
- Isolator incomer fitted as standard.
- Manufactured to BSEN 61439 - Part 1 & 3.



MCX 3-PHASE DISTRIBUTION BOARDS

Measurements: Millimeters (mm) unless stated otherwise

Outgoing Switchgear: Supplied separately

Circuit Protection Devices: Please refer to page 20 & 22

**INCOMING
SECTION
SPD READY**

Order separate kit.



MCX22/I200
200A MCB/MCCB
DISTRIBUTION BOARDS

MCX range offers versatile use of standard MCBs up to 63A, RCBOs up to 63A and MCCBs up to 160A.

INCOMER FACTORY FITTED	NO. of O/G WAYS	CAT. NO.	H	W	D
200A TP Switch Disconnecter	2 W-63A, 2 W-160A	MCX22/I200	950	600	170
200A TP Switch Disconnecter	2 W-63A, 4 W-160A	MCX24/I200	1100	600	170
200A TP Switch Disconnecter	4 W-63A, 2 W-160A	MCX42/I200	1000	600	170
200A TP Switch Disconnecter	4 W-63A, 4 W-160A	MCX44/I200	1100	600	170
200A TP Switch Disconnecter	6 W-63A, 2 W-160A	MCX62/I200	1100	600	170
200A TP Switch Disconnecter	6 W-63A, 4 W-160A	MCX64/I200	1200	600	170
200A TP Switch Disconnecter	8 W-63A, 2 W-160A	MCX82/I200	1100	600	170
200A TP Switch Disconnecter	8 W-63A, 4 W-160A	MCX84/I200	1200	600	170
200A TP Switch Disconnecter	12 W-63A, 2 W-160A	MCX122/I200	1200	600	170
200A TP Switch Disconnecter	12 W-63A, 4 W-160A	MCX124/I200	1300	600	170

**INCOMING
SECTION
SPD READY**

Order separate kit.



MCX22/I250
250A MCB/MCCB
DISTRIBUTION BOARDS

MCX range offers versatile use of standard MCBs up to 63A, RCBOs up to 63A and MCCBs up to 160A.

INCOMER FACTORY FITTED	NO. of O/G WAYS	CAT. NO.	H	W	D
250A TP Switch Disconnecter	2 W-63A, 2 W-160A	MCX22/I250	950	600	170
250A TP Switch Disconnecter	2 W-63A, 4 W-160A	MCX24/I250	1100	600	170
250A TP Switch Disconnecter	4 W-63A, 2 W-160A	MCX42/I250	1000	600	170
250A TP Switch Disconnecter	4 W-63A, 4 W-160A	MCX44/I250	1100	600	170
250A TP Switch Disconnecter	6 W-63A, 2 W-160A	MCX62/I250	1100	600	170
250A TP Switch Disconnecter	6 W-63A, 4 W-160A	MCX64/I250	1200	600	170
250A TP Switch Disconnecter	8 W-63A, 2 W-160A	MCX82/I250	1100	600	170
250A TP Switch Disconnecter	8 W-63A, 4 W-160A	MCX84/I250	1200	600	170
250A TP Switch Disconnecter	12 W-63A, 2 W-160A	MCX122/I250	1200	600	170
250A TP Switch Disconnecter	12 W-63A, 4 W-160A	MCX124/I250	1300	600	170

CBX/MCXT12
SURGE PROTECTION
FOR MCX/CBX
COMBINATION BOARDS



DESCRIPTION	CAT. NO.
T2 Surge Protection	CBX/MCXT2
T12 Surge Protection	CBX/MCXT12

CBX 3-PHASE DISTRIBUTION BOARDS

Measurements: Millimeters (mm)
unless stated otherwise

Outgoing Switchgear: Supplied
separately

Circuit Protection Devices:
Please refer to page 29

**INCOMING
SECTION
SPD READY**

Order separate kit.

CBX22/1200 200A MCB DISTRIBUTION BOARDS

CBX range offers versatile use of standard size MCBs up to 63A, RCBOs up to 63A and larger frame size MCBs 80A to 125A.



INCOMER FACTORY FITTED	NO. of O/G WAYS	CAT. NO.	H	W	D
200A TP Switch Disconnecter	2 W-63A, 2 W-125A	CBX22/1200	950	600	170
200A TP Switch Disconnecter	2 W-63A, 4 W-125A	CBX24/1200	1100	600	170
200A TP Switch Disconnecter	4 W-63A, 2 W-125A	CBX42/1200	1000	600	170
200A TP Switch Disconnecter	4 W-63A, 4 W-125A	CBX44/1200	1100	600	170
200A TP Switch Disconnecter	6 W-63A, 2 W-125A	CBX62/1200	1100	600	170
200A TP Switch Disconnecter	6 W-63A, 4 W-125A	CBX64/1200	1200	600	170
200A TP Switch Disconnecter	8 W-63A, 2 W-125A	CBX82/1200	1100	600	170
200A TP Switch Disconnecter	8 W-63A, 4 W-125A	CBX84/1200	1200	600	170
200A TP Switch Disconnecter	12 W-63A, 2 W-125A	CBX122/1200	1200	600	170
200A TP Switch Disconnecter	12 W-63A, 4 W-125A	CBX124/1200	1300	600	170

**INCOMING
SECTION
SPD READY**

Order separate kit.

CBX24/1250 250A MCB DISTRIBUTION BOARDS

CBX range offers versatile use of standard size MCBs up to 63A, RCBOs up to 45A and larger frame size MCBs 80A to 125A.



INCOMER FACTORY FITTED	NO. of O/G WAYS	CAT. NO.	H	W	D
250A TP Switch Disconnecter	2 W-63A, 2 W-125A	CBX22/1250	950	600	170
250A TP Switch Disconnecter	2 W-63A, 4 W-125A	CBX24/1250	1100	600	170
250A TP Switch Disconnecter	4 W-63A, 2 W-125A	CBX42/1250	1000	600	170
250A TP Switch Disconnecter	4 W-63A, 4 W-125A	CBX44/1250	1100	600	170
250A TP Switch Disconnecter	6 W-63A, 2 W-125A	CBX62/1250	1100	600	170
250A TP Switch Disconnecter	6 W-63A, 4 W-125A	CBX64/1250	1200	600	170
250A TP Switch Disconnecter	8 W-63A, 2 W-125A	CBX82/1250	1100	600	170
250A TP Switch Disconnecter	8 W-63A, 4 W-125A	CBX84/1250	1200	600	170
250A TP Switch Disconnecter	12 W-63A, 2 W-125A	CBX122/1250	1200	600	170
250A TP Switch Disconnecter	12 W-63A, 4 W-125A	CBX124/1250	1300	600	170

CBX/MCXT12 SURGE PROTECTION FOR MCX/CBX COMBINATION BOARD



DESCRIPTION	CAT. NO.
T2 Surge Protection	CBX/MCXT2
T12 Surge Protection	CBX/MCXT12

CBX 3-PHASE ACCESSORIES



CBENCTP

LARGE FRAME MCB IP3X STEEL ENCLOSURES

DESCRIPTION	CAT. NO.	H	W	D
80-125 SP	CBENCSP	385	205	116
80-125 TP	CBENCTP	385	205	116



CB125T/C

LARGE FRAME TYPE C MCB

DESCRIPTION	kA RATING	CAT. NO.
80A SP	10	CB080S/C
80A TP	10	CB080T/C
100A SP	10	CB100S/C
100A TP	10	CB100T/C
125A SP	10	CB125S/C
125A TP	10	CB125T/C



LOCKING

DESCRIPTION	CAT. NO.
Key lock for door	XLKL

MCCB PROTECTION OF MOTOR CIRCUITS

Moulded case circuit breakers are not in themselves intended to afford close thermal protection on motor circuits. However, when used in tandem with any intrinsic motor overload device they provide an excellent alternative to the combined isolator and fuse arrangements. In this case the motor is protected by its own circuit breaker.

In order to select the correct MCCB, consideration should be given to individual MCCB time/current characteristics (for full details please refer to works). This should only be undertaken in conjunction with information provided by the motor manufacturer

as to starting current and duration.

The motor protection table shown provides a guide to MCCB selection based on the start current and duration indicated and it must always be noted that the drive and motor loading will affect the motor run up time.

(i) The figures shown are based on the assumption that the motor starting conditions are:

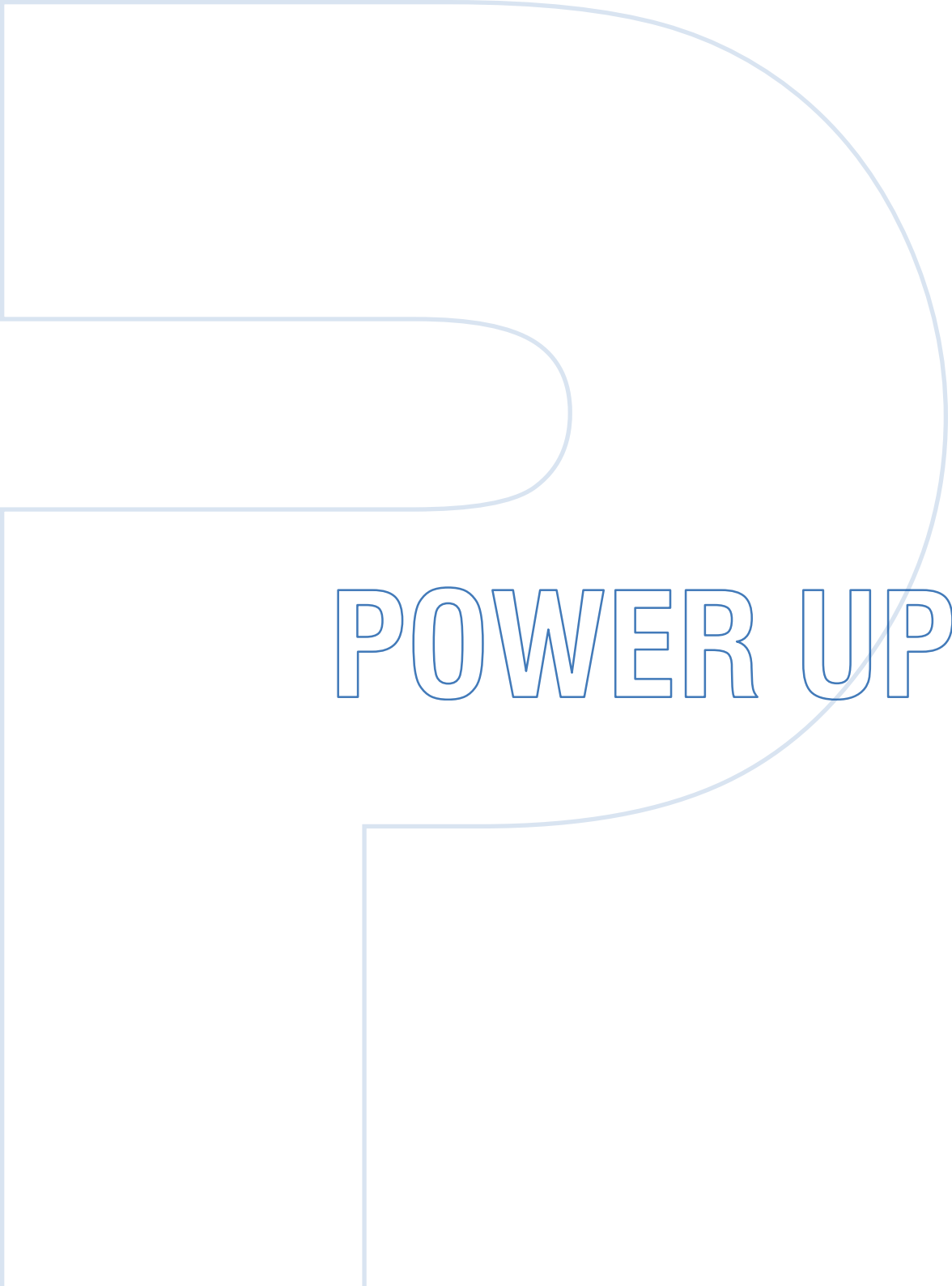
Direct On-Line = 7 x full load current for 5 seconds max.

MOTOR RATING (kW)	MOTOR RATING (HP)	APPROX. FLC (A) AT 400V	DIRECT ON LINE MCCB TYPE/CURRENT RATING	
< 5.5	< 7.5	< 11.5	16A	MC016T
< 11	< 15	< 22.5	25A	MC025T
< 15	< 20	< 30	32A	MC032T
< 18	< 25	< 36	40A	MC040T
< 22	< 30	< 43	50A	MC050T
< 30	< 40	< 58	63A	MC063TMR
< 37	< 50	< 72	80A	MC080TMR
< 51	< 70	< 98	100A	MC100TMR
< 63	< 85	< 117	125A	MC125TMR
< 80	< 110	< 147	160A	MC160TMR
< 90	< 125	< 169	200A	MC200TMR
< 110	< 150	< 205	250A	MC250TMR
< 160	< 220	< 292	315A	MC315T
< 200	< 270	< 368	400A	MC400T
< 250	< 340	< 465	500A	MC500T
< 315	< 430	< 580	630A	MC630T

MCCB PROTECTION OF CAPACITOR CIRCUITS

Moulded case circuit breakers are commonly applied to capacitor currents. However, due to high in-rush currents and harmonic content found in capacitor circuits, MCCBs should be rated > 1.5 times the current rating of the capacitor.

It is recommended that the MCCB should be utilised as a main isolation/protection device to the capacitor bank. (i.e. occasional switching). Capacitors should be individually protected and switched by appropriately rated contactors.

A large, light blue outline of the letter 'P' serves as a background for the text.

POWER UP

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