

PRODUCT CATALOGUE



LV Switchgear
Distribution Boards
Consumer Units
Circuit Protection Devices



Installation Materials Division

...the name behind the brands



INDUSTRIAL SWITCHGEAR DIVISION

Proteus are committed to bringing our customers solutions for power distribution and energy efficiency, whilst focusing on the manufacture of switchgear products specifically designed to offer reliability from 'plant room to plug top'. With many years of experience in Power & Distribution, we can help you make your energy use and distribution systems safer in order to protect your people, assets and business. Our comprehensive array of electrical distribution products, technologies and services, allows architects and facility owners a flexible approach to their electrical distribution needs. With considerable stock within our UK based factory and 800 distributors worldwide, we are ready and able to satisfy all of your power distribution needs.

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CONSUMER UNIT DIVISION

For over 30 years, Proteus Switchgear has been at the forefront of British manufacturing - specialising in the production of domestic consumer units and circuit protective devices, working proficiently to supply a full and varied product range. In addition to our standard product range, we have the ability to offer fully bespoke units, tailored to customer needs to suit any individual installation. At Proteus, we are entirely committed to the design and development of our products with the future in mind. Our values insist that we are continuously endeavouring to provide 100% tested products alongside features and benefits that allow us to excel within the Switchgear industry.

Section Content

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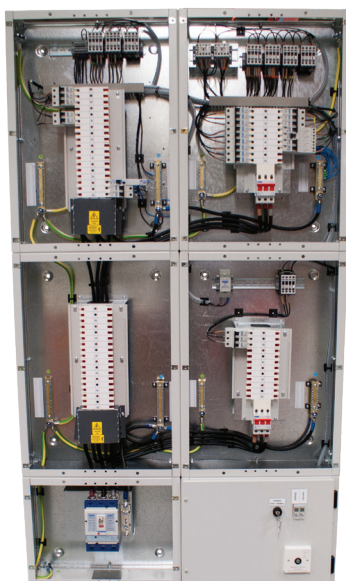
GENERAL CONSTRUCTION TO BSEN 61439-1&2 SPECIFIABLE OPTIONS:

Form 2, Form 3 and Form 4 levels of segregation.
Multi-function, analogue/digital tariff and non tariff metering.
Restricted earth fault protection utilising Class X CTs providing protection of transformer LV windings.
Cableways positioned to left or right hand of switchgear or with high/low level pre-connected terminals for front access applications.

All switchgear has the option of 3 or 4 pole switching.

Manual and automatic changeover systems.
Fully integrated automatic PFC including multi-stage 'switching' hand/off/auto selection, automatic control relays, contactors, fuse protection (25KVar, 50KVar stages as standard, other sizes available).
Sealable supply authority CT chambers.
Surge suppression.

Modular design to customer requirements.
Main incomer options up to 2500 amps.



ENERGY MANAGEMENT PANELS GENERAL CONSTRUCTION TO BSEN 61439-1&2

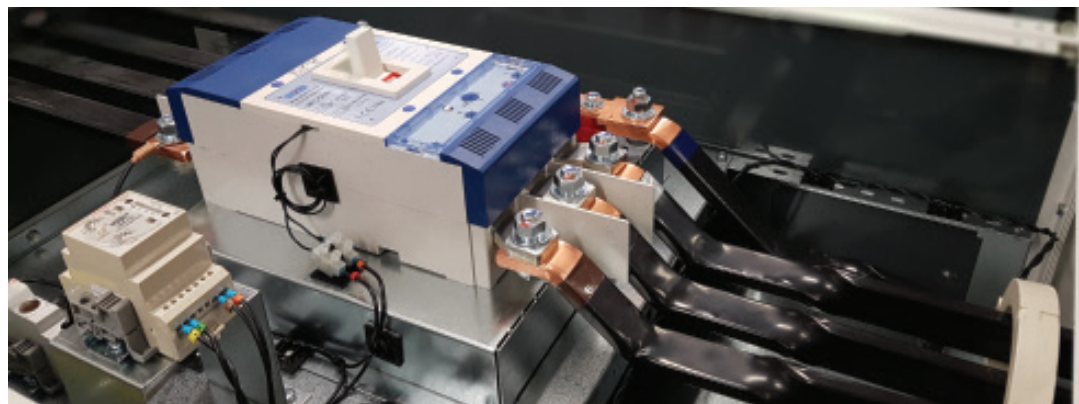
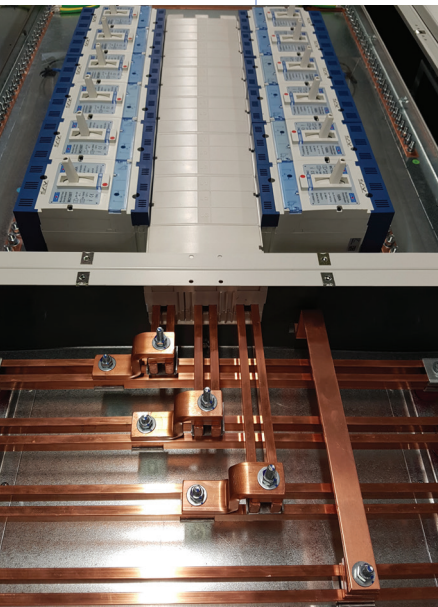
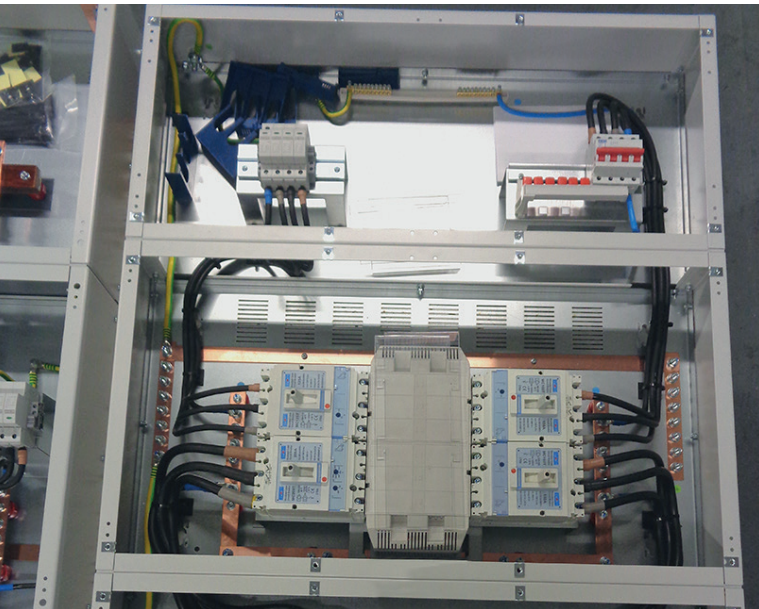
With increasing emphasis on energy conservation, Proteus Switchgear offers the complete range of intrinsic energy management, varying from timeswitch and relay logic to electronic microprocessor control* of lighting, heating and ventilation and fire/security systems.

To meet these changing requirements in retail, commercial and industrial applications, Proteus Switchgear manufactures custom-designed energy management panels, typically incorporating the following options:

- Main incoming isolation/protection up to 800 amps.
- 24 hour essential services distribution.
- Point of entry/exit key switch controlled services.
- Fire alarm interlocking.
- Signage control/extended hours manual override.
- Emergency lighting test/battery discharge facility.
- Panels built to specification or in conjunction with our technical departments.

*Microprocessor specification to be confirmed by client and system supplier, i.e. unit free issued to Proteus for inclusion within panel.

CUSTOM BUILT MCCB BOARDS



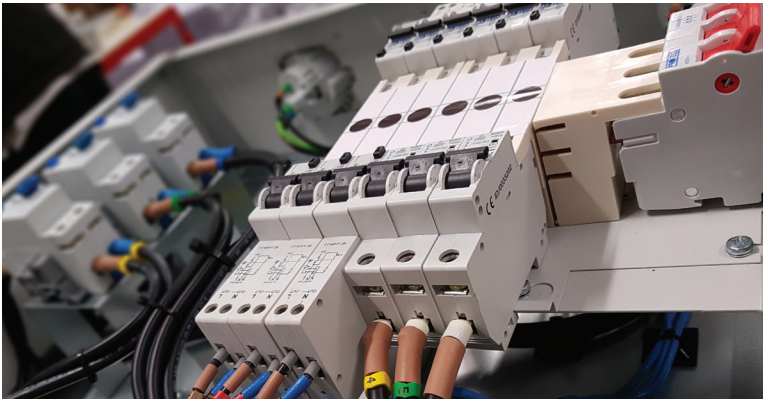
GENERAL CONSTRUCTION TO BS EN 61439-1&2

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 250 amps as standard. Larger rated outgoing MCCBs can be factory fitted to busbar systems (upto 800A).
Distribution busbars up to 800 amps.
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

Custom built assemblies to customer requirements

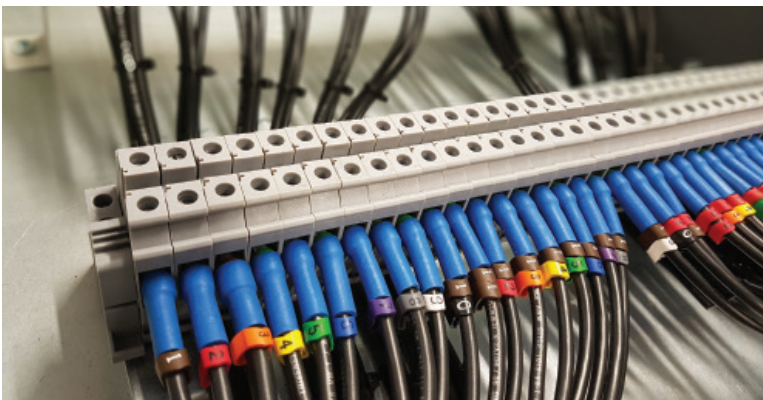


FITTED DEVICES

MCBs and RCBOs can be fitted and cabled to terminals and contactors / 3 or 5 pin sockets

SURGE ARRESTORS

Type 2 surge arrester cabled in parallel with supply.
Din rail mounted.

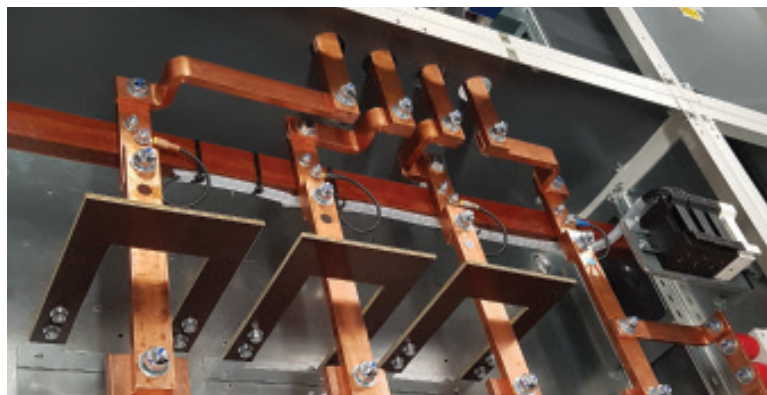


CABLING ASSISTANCE

Devices can be cabled to panel mounted terminals to aid cabling

SUPPLY AUTHORITY C.T. CHAMBER

Supply authority C.T. chamber with C.T. support plates. Built to specific supply authority requirements



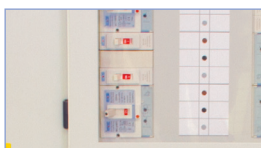
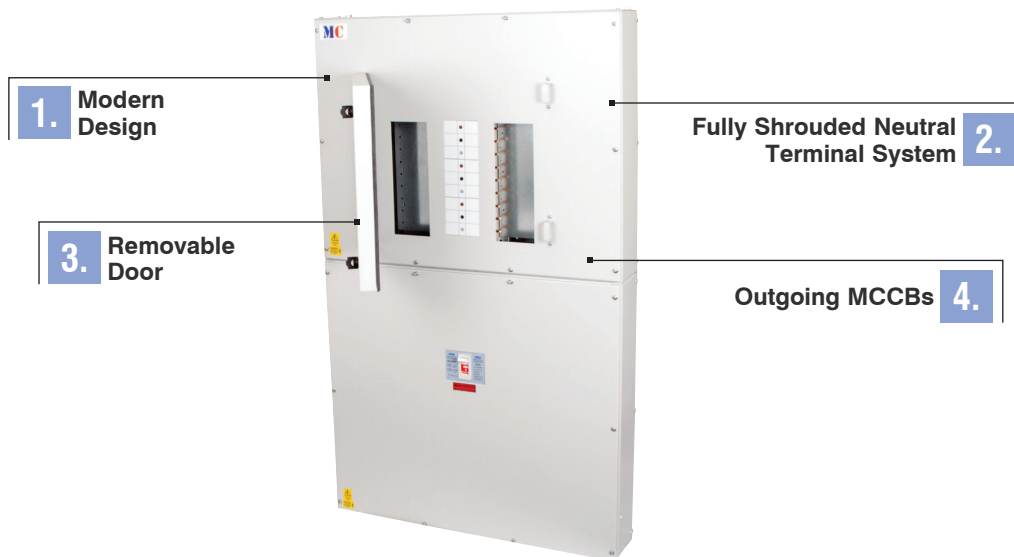
KEY FEATURES:

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 on request.
High fault level rating, 36kA Icc.
Removable end plates for easy glanding and ease of installation.
Standard board width 900 mm allowing easy cabling.
Construction gives type 2 and type 3 group mounted segregation to BS EN 61439:Pt1 & 2:2011.
Constructed with 1.6 mm 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.





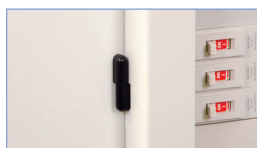
1. Modern Design

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.



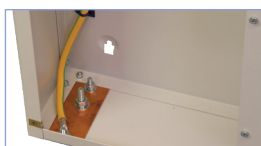
3. Removable Door

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.

OFFERING A COMPREHENSIVE RANGE



MCCB PANELBOARDS - 250A BUSBAR 36KA ICC

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

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

FEATURES:

- Available from 3 to 18 triple pole outgoing ways.
- Factory fitted incoming MCCB/isolator 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 200 or 300 mm 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.



200A MCCB INCOMER OR SWITCH DISCONNECTOR FITTED BOARDS

MCP32/I200

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

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



MCP42/I200F

200A MCCB INCOMER FITTED BOARDS

NO. of O/G WAYS	CAT. NO. - 4 POLE	H	W	D
4	MCP42/I200F	1000	900	170
6	MCP62/I200F	1200	900	170
8	MCP82/I200F	1200	900	170
12	MCP122/I200F	1450	900	170
16	MCP162/I200F	1800	900	170
18	MCP182/I200F	1800	900	170



250A MCCB INCOMER OR SWITCH DISCONNECTOR FITTED BOARDS

MCP72/I250

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

(S) - Add suffix 'S' for Switch Disconnecter Incomer Fitted Boards e.g. MCP72/I250S



MCP62/I250F

250A MCCB INCOMER FITTED BOARDS

NO. of O/G WAYS	CAT. NO. - 4 POLE	H	W	D
4	MCP42/I250F	1000	900	170
6	MCP62/I250F	1200	900	170
8	MCP82/I250F	1200	900	170
12	MCP122/I250F	1450	900	170
16	MCP162/I250F	1800	900	170
18	MCP182/I250F	1800	900	170

Measurements:
Millimetres (mm)
unless stated
otherwise

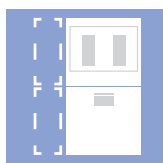
**Outgoing
Switchgear:**
Supplied separately

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

3 POLE



4 POLE



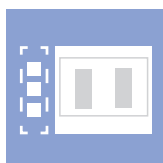
MCPEB32L

SIDE EXTENSION BOX 3 & 4 POLE INCOMER

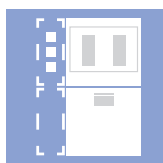
* - To suit four pole boards.

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

3 POLE



4 POLE



MCPMB52R

SIDE METER EXTENSION BOX 3 & 4 POLE INCOMER

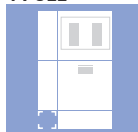
* - To suit four pole boards.

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*	1300	400	170

3 POLE



4 POLE



MCPCB34L

CORNER EXTENSION BOX

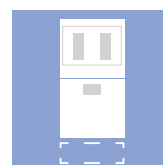
CAT. NO. (LEFT SIDE)	CAT. NO. (RIGHT SIDE)	H	W	D
MCPCB22L	MCPCB22R	200	200	170
MCPCB32L	MCPCB32R	300	200	170
MCPCB24L	MCPCB24R	200	400	170
MCPCB34L	MCPCB34R	300	400	170



MCPBEB200

3 POLE

4 POLE



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

Measurements:

Millimetres (mm)
unless stated
otherwise

Outgoing

Switchgear:
Supplied separately

Outgoing MCCB's:

Upto 250A TP and
200A SP

FEATURES:

- Available from 4 to 18 triple pole outgoing ways.
- Factory fitted incoming MCCB/isolator 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 200 or 300 mm 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.



MCP44/I315

**WALL
MOUNTED**

**SIDE
HINGED
DOOR**

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



MCP84/I400S

**WALL
MOUNTED**

**SIDE
HINGED
DOOR**

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	1300	900	170
6	MCP64/I400 (S)	MCP64/I400F	1500	900	170
8	MCP84/I400 (S)	MCP84/I400F	1500	900	170
12	MCP124/I400 (S)	MCP124/I400F	1750	900	170
16	MCP164/I400 (S)	MCP164/I400F	2100	900	170
18	MCP184/I400 (S)	MCP184/I400F	2100	900	170

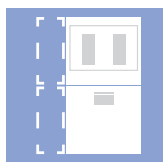
(S) - Add suffix 'S' for Switch Disconnecter Incomer option e.g. MCP84/I400S. Triple pole only

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

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

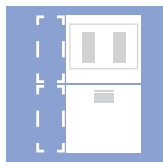
MCPEB64L



SIDE EXTENSION BOX

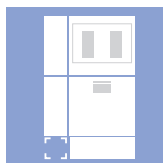
CAT. NO. (LEFT SIDE)	CAT. NO. (RIGHT SIDE)	H	W	D
MCPEB44L	MCPEB44R	1300	200	170
MCPEB64L	MCPEB64R	1500	200	170
MCPEB84L	MCPEB84R	1500	200	170
MCPEB124L	MCPEB124R	1750	200	170
MCPEB164L	MCPEB164R	2100	200	170
MCPEB184L	MCPEB184R	2100	200	170

MCPMB84R



SIDE METER EXTENSION BOX

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



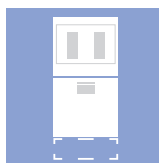
MCPCB34L

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

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

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

FEATURES:

- Available from 4 to 18 triple pole outgoing ways.
- Factory fitted incoming MCCB/isolator 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 200 or 300 mm 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.

MCP48/I500

**SIDE
HINGED
DOOR**

**WALL
MOUNTED**



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

MCP48/I630S

**SIDE
HINGED
DOOR**

**WALL
MOUNTED**



630A MCCB INCOMER OR SWITCH DISCONNECTOR FITTED BOARDS

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

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

MCP128/I800F

**SIDE
HINGED
DOOR**

**WALL
MOUNTED**



800A MCCB INCOMER OR SWITCH DISCONNECTOR 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

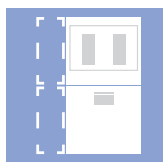
(S) - Add suffix 'S' for Switch Disconnecter Incomer option e.g. MCP88/I800S. Triple pole only

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

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

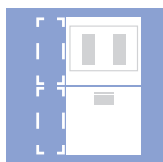
MCPEB68L



SIDE EXTENSION BOX

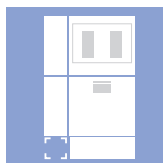
CAT. NO. (LEFT SIDE)	CAT. NO. (RIGHT SIDE)	H	W	D
MCPEB48L	MCPEB48R	1450	200	170
MCPEB68L	MCPEB68R	1650	200	170
MCPEB88L	MCPEB88R	1650	200	170
MCPEB128L	MCPEB128R	1900	200	170
MCPEB168L	MCPEB168R	2250	200	170
MCPEB188L	MCPEB188R	2250	200	170

MCPMB48R



SIDE METER EXTENSION BOX

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



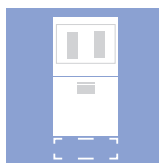
MCPCB34L

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

Measurements:
Millimetres (mm)
unless stated
otherwise

FEATURES:

- 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.

NON-TARIFF MULTIFUNCTION MULTIMETERS (1 & 3 PHASE)

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 6 x 100A TP MCCBs (MC100T) and 6 x Digital multimeters (MCPMFM100T).



MCPMFM063T

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

MID/TARIFF MULTIMETERS (1 & 3 PHASE)

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 6 x 125A TP MCCBs (MC125T) and 6 x digital multimeters (MCPMFM125TMID).



MCPMFM063TMID

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 (1 & 3 PHASE)

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

FEATURES:

- 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 filtering.

Measurements:
Millimetres (mm)
unless stated
otherwise

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 6 x 100A TP MCCBs (MC100T) and 6 x Earth Leakage Units (MCPEL100).



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

STAND ALONE EARTH LEAKAGE UNITS

Triple Pole 36kA Moulded Case Circuit Breaker in Steel Enclosure fitted with Earth Fault Relay Device

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

CT internal diameters of 70 mm from 100A to 200A and 120 mm for current ratings from 250A to 630A.



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	-	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

Measurements:
Millimetres (mm)
unless stated
otherwise



MCENC1

ENCLOSURES TO SUIT INDIVIDUAL MCCBS (3 & 4 POLE)

3 pole units will accept 1 x SP or 1 x TP MCCB.
4 pole units will accept 1 x 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	3 POLE CAT. NO.	4 POLE CAT. NO.	H	W	D
16A - 100A	MCENC1	MCENC1F	400	300	170
125A - 200A	MCENC2	MCENC2F	700	300	170
250A - 630A	MCENC6	MCENC6F	950	400	170
800A	MCENC8	MCENC8F	1300	500	300

220 VOLTS

SHUNT TRIP UNITS



MCST4P630

DESCRIPTION	CAT. NO.	VOLTAGE	DEVICE
For MCCB up to 250A	MCST3P250*	220V	3+4 pole
For MCCB 315A-630A	MCST3P630	220V	3 pole
For MCCB 800A	MCST3P800	220V	3 pole
For MCCB up to 100A	MCST4P100	220V	4 pole
For MCCB 315A-400A	MCST4P400**	220V	4 pole
For MCCB 500A-630A	MCST4P630	220V	4 pole
For MCCB 800A	MCST4P800	220V	4 pole

MCA3P250 - Auxiliary contact for MC016T to MC250T.

Wire in series with shunt trip MCST3P250.

* - For MC250TLF use S/T MCST3P630.

** - For MC250FLF use MCST4P400

SURGE PROTECTION DEVICES 3 PHASE + N (4 POLE)

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 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 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 250A TP MCCB to be fitted into 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
(Blanks sold separately)

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	250A TP MCCB	MCPT12/800			
>315 - 800A	3 & 4	Type 2	250A TP MCCB	MCPT2/800			

SURGE PROTECTION DEVICES

For surge protection Info, SPD selection chart, loose surge arrestors and enclosed surge arrestors please go to **pages 57, 58 & 59**





MCCBM1



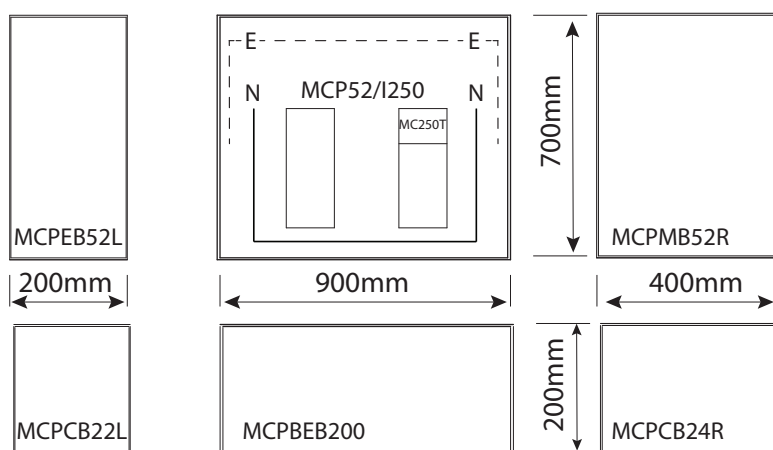
MCNUTM8

ADDITIONAL ACCESSORIES

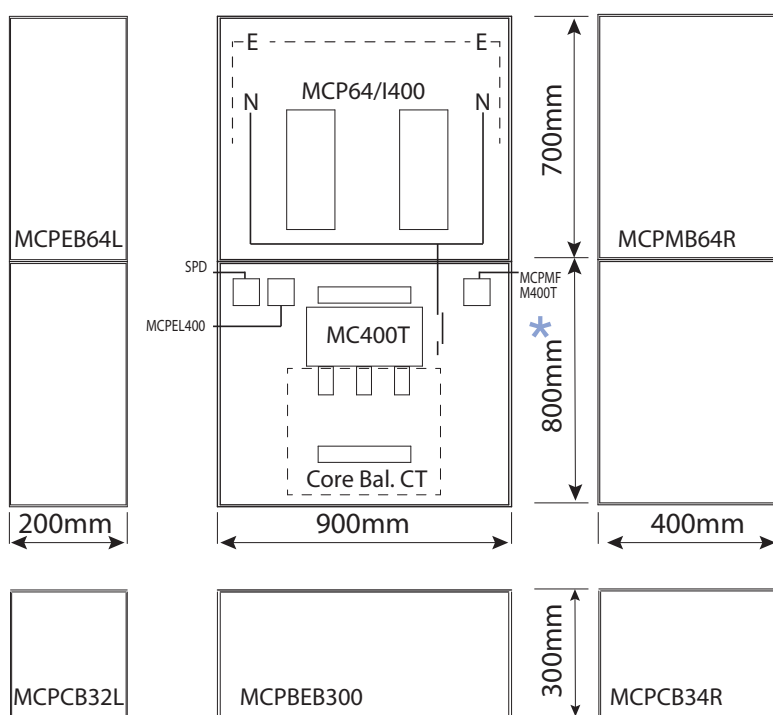
DESCRIPTION	CAT. NO.
Padlocking device - for 3P & adj 4P MCCBs (16A to 630A)	MCPD
SP MCCB blank	MCCBM1
Incomer door	MCPID
120 mm² lug connection kit for MC016T-MC250T	MCLK120
150 mm² lug connection kit for MC016T-MC250T	MCLK150
185 mm² lug connection kit for MC016T-MC250T	MCLK185
MC063T-MC250T long terminal shield	MCLTS
M8 nut insert and bolt for MC016T-MC250T	MCNUTM8
Key lock for door	XLKL

Measurements:
Millimetres (mm)
unless stated
otherwise

250A BUSBAR SYSTEM



400A AND 800A BUSBAR SYSTEMS



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

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 contact and minimal pitting during switching for a longer contact life.

Positive contact indication is by means of the operating lever position.





1. Technical Detail

Full technical detail, markings and adjustable parameters clearly identified.



2. Box Clamp Terminals

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



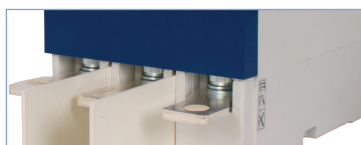
3. Fully Shrouded Terminals

Fully shrouded terminals.



4. Trip Position

Mid-trip position of MCCB dolly.



5. Phase Barriers

Phase barriers supplied with lug connected MCCBs.

OFFERING A COMPREHENSIVE RANGE



Measurements:
Millimetres (mm)
unless stated
otherwise

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 contact and minimal pitting during switching for a longer contact life.
- Positive contact indication is by means of the operating lever position.



MC125S

SINGLE POLE MCCBS

Single Pole 36kA Moulded Case Circuit Breakers

CURRENT RATING (A)	NO. of POLES	kA RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
16	SP	36	F	500A	120 mm ²	MC016S
20	SP	36	F	500A	120 mm ²	MC020S
25	SP	36	F	500A	120 mm ²	MC025S
32	SP	36	F	500A	120 mm ²	MC032S
40	SP	36	F	500A	120 mm ²	MC040S
50	SP	36	F	500A	120 mm ²	MC050S
63	SP	36	F	500A	120 mm ²	MC063S
80	SP	36	F	800A	120 mm ²	MC080S
100	SP	36	F	1000A	120 mm ²	MC100S
125	SP	36	F	1250A	120 mm ²	MC125S
160	SP	36	F	1600A	120 mm ²	MC160S
200	SP	36	F	2000A	120 mm ²	MC200S



MC032T

TRIPLE POLE MCCBS

Triple Pole 36kA Moulded Case Circuit Breakers

** - For panel boards only.

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 mm ²	MC016T
20	TP	36	A (0.8-1xIn)	250A	120 mm ²	MC020T
25	TP	36	A (0.8-1xIn)	250A	120 mm ²	MC025T
32	TP	36	A (0.8-1xIn)	320A	120 mm ²	MC032T
40	TP	36	A (0.8-1xIn)	400A	120 mm ²	MC040T
50	TP	36	A (0.8-1xIn)	500A	120 mm ²	MC050T
63	TP	36	A (0.8-1xIn)	630A	120 mm ²	MC063T
80	TP	36	A (0.8-1xIn)	800A	120 mm ²	MC080T
100	TP	36	A (0.8-1xIn)	1000A	120 mm ²	MC100T
125	TP	36	A (0.8-1xIn)	1250A	120 mm ²	MC125T
160	TP	36	A (0.8-1xIn)	1600A	120 mm ²	MC160T
200	TP	36	A (0.8-1xIn)	A (5-10xIn)	120 mm ²	MC200T
250	TP	36	A (0.8-1xIn)	A (5-10xIn)	120 mm ²	MC250T**



MC100TMR

MOTOR RATED MCCBS

Triple Pole 36kA Motor Rated Moulded Case Circuit Breakers

** - For panel boards only.

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 mm ²	MC063TMR
37	80A	36	A (0.7-1x In)	15xIn	120 mm ²	MC080TMR
51	100A	36	A (0.7-1x In)	15xIn	120 mm ²	MC100TMR
63	125A	36	A (0.7-1x In)	15xIn	120 mm ²	MC125TMR
80	160A	36	A (0.7-1x In)	15xIn	120 mm ²	MC160TMR
90	200A	36	A (0.7-1x In)	10-15xIn	120 mm ²	MC200TMR
110	250A	36	A (0.7-1x In)	10-15xIn	120 mm ²	MC250TMR**

F - Fixed | A - Adjustable | LF - Large frame.



MC250TLF

LARGE FRAME TRIPLE POLE MCCBS

Large Frame Triple Pole 36 - 70kA Moulded Case Circuit Breakers

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	36	A (0.8-1xIn)	A (4-8xIn)	Lugged(M12)	MC800T
1000	TP	70	A (0.4-1xIn)	A (2-10xIn)	Lugged	MC1000T***
1250	TP	70	A (0.4-1xIn)	A (2-10xIn)	Lugged	MC1250T***
1600	TP	70	A (0.4-1xIn)	A (2-10xIn)	Lugged	MC1600T***

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.

*** - This MCCB does not fit in MCP panelboards.

Measurements:
Millimetres (mm)
unless stated
otherwise



MC800F

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	630	Tunnel-120mm ²	MC063FA
100	FP	36	A 0-8-1	1000	Tunnel-120mm ²	MC100FA
125	FP	36	A 0-8-1	1250	Tunnel-120mm ²	MC125FA
160	FP	36	A 0-8-1	1600	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	36	F 800A	A (8-10xIn)	Lugged(M12)	MC800F

4 Pole MCCBs cannot be fitted as outgoing devices in MCP panelboards. MC250FALF must be used when using as an individual cable in, cable out MCCB device.



MC250TNA

TRIPLE POLE NON-AUTO MCCBS

*Non-Auto MCCBs should be protected by a Proteus MC...T/F MCCB of the same rating. Non-Auto MCCBs cannot be fitted as outgoing devices in MCP panelboards.

CURRENT RATING (A)	NO. of POLES	kA* RATING (kA)	THERMAL RELEASE	MAGNETIC RELEASE	TERMINAL CAPACITY	CAT. NO.
200	TP	36	-	-	Tunnel-120mm ²	MC200TNA
250	TP	36	-	-	Tunnel-120mm ²	MC250TNA
400	TP	36	-	-	Lugged(M12)	MC400TNA
630	TP	36	-	-	Lugged(M12)	MC630TNA
800	TP	36	-	-	Lugged(M12)	MC800TNA

F - Fixed | A - Adjustable | LF - Large frame.

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

**Circuit Protection
Devices:**
Please refer to page
22 & 52

FEATURES:

- The MCX range 'combination board' brings together the standard TP&N MCB distribution board with typical 17.5 mm module MCBs with the opportunity to fit larger amperage MCCBs upto 160A.
- Accepts MCBs up to 63A and RCBOs up to 45A (17.5 mm wide module).
- Accepts MCCBs 16A to 160A
- Isolator incomer fitted as standard.
- Manufactured to BSEN 61439 - Part 1 & 3.



MCX22/I200

200A MCB/MCCB DISTRIBUTION BOARDS

MCX range offers versatile use of standard MCBs upto 63A, RCBOs upto 45A and MCCBs upto 160A.

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



MCX22/I250

250A MCB/MCCB DISTRIBUTION BOARDS

MCX range offers versatile use of standard MCBs upto 63A, RCBOs upto 45A and MCCBs upto 160A.

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

FEATURES:

- The CBX range 'combination board' brings together the standard TP&N MCB distribution board with typical 17.5 mm module MCBs with the opportunity to fit larger amperage MCBs upto 125A rated.

- Accepts MCBs up to 63A and RCBOs up to 45A (17.5 mm wide module).
- Accepts MCBs 80A to 125A (26.3 mm wide module).
- Isolator incomer fitted as standard.
- Manufactured to BSEN 61439 - Part 1 & 3.

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

**Circuit Protection
Devices:**

Please refer to
page 52



CBX22/I200

200A MCB DISTRIBUTION BOARDS

CBX range offers versatile use of standard size MCB's upto 63A, RCBO's upto 45A and larger frame size MCB's 80A to 125A

INCOMER FACTORY FITTED	NO. of O/G WAYS	CAT. NO.	H	W	D
200A TP Isolator	2 W-63A, 2 W-125A	CBX22/I200	950	600	170
200A TP Isolator	2 W-63A, 4 W-125A	CBX24/I200	1100	600	170
200A TP Isolator	4 W-63A, 2 W-125A	CBX42/I200	1000	600	170
200A TP Isolator	4 W-63A, 4 W-125A	CBX44/I200	1100	600	170
200A TP Isolator	6 W-63A, 2 W-125A	CBX62/I200	1100	600	170
200A TP Isolator	6 W-63A, 4 W-125A	CBX64/I200	1200	600	170
200A TP Isolator	8 W-63A, 2 W-125A	CBX82/I200	1100	600	170
200A TP Isolator	8 W-63A, 4 W-125A	CBX84/I200	1200	600	170
200A TP Isolator	12 W-63A, 2 W-125A	CBX122/I200	1200	600	170
200A TP Isolator	12 W-63A, 4 W-125A	CBX124/I200	1300	600	170



CBX24/I250

250A MCB DISTRIBUTION BOARDS

CBX range offers versatile use of standard size MCB's upto 63A, RCBO's upto 45A and larger frame size MCB's 80A to 125A

INCOMER FACTORY FITTED	NO. of O/G WAYS	CAT. NO.	H	W	D
250A TP Isolator	2 W-63A, 2 W-125A	CBX22/I250	950	600	170
250A TP Isolator	2 W-63A, 4 W-125A	CBX24/I250	1100	600	170
250A TP Isolator	4 W-63A, 2 W-125A	CBX42/I250	1000	600	170
250A TP Isolator	4 W-63A, 4 W-125A	CBX44/I250	1100	600	170
250A TP Isolator	6 W-63A, 2 W-125A	CBX62/I250	1100	600	170
250A TP Isolator	6 W-63A, 4 W-125A	CBX64/I250	1200	600	170
250A TP Isolator	8 W-63A, 2 W-125A	CBX82/I250	1100	600	170
250A TP Isolator	8 W-63A, 4 W-125A	CBX84/I250	1200	600	170
250A TP Isolator	12 W-63A, 2 W-125A	CBX122/I250	1200	600	170
250A TP Isolator	12 W-63A, 4 W-125A	CBX124/I250	1300	600	170



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



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



XLKL

LOCKING

DESCRIPTION	CAT. NO.
Key lock for door	XLKL
CB MCB padlock device	DLPX1

XL RANGE FITTED WITH SURGE PROTECTION

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

FEATURES:

Proteus Switchgear offers a comprehensive range of Lightning and Surge Protection Devices for single and three phase applications. Whether it's a stand-alone device

or a pre-assembled SPD in a distribution board, Proteus can provide a coordinated system to meet your specific requirements



**125A ISOLATOR INCOMER
c/w TYPE 2 SPD**

XL4S125T2

NO. of O/G TP WAYS	CAT. NO. TYPE 2 SPD	H	W	D
3	XL4S125T2	457	600	132
5	XL6S125T2	512	600	132
7	XL8S125T2	567	600	132
11	XL12S125T2	732	600	132
15	XL16S125T2	842	600	132
19	XL20S125T2	942	600	132
23	XL24S125T2	1217	600	132



**125A ISOLATOR INCOMER
c/w TYPE 1+2 SPD**

XL6S125T12

NO. of O/G TP WAYS	CAT. NO. TYPE 2 SPD	H	W	D
3	XL4S125T12	457	600	132
5	XL6S125T12	512	600	132
7	XL8S125T12	567	600	132
11	XL12S125T12	732	600	132
15	XL16S125T12	842	600	132
19	XL20S125T12	942	600	132
23	XL24S125T12	1217	600	132



**200A ISOLATOR INCOMER
c/w TYPE 2 SPD**

XL8S2T2

NO. of O/G TP WAYS	CAT. NO. TYPE 2 SPD	H	W	D
3	XL4S2T2	732	600	132
5	XL6S2T2	732	600	132
7	XL8S2T2	732	600	132
11	XL12S2T2	842	600	132
15	XL16S2T2	942	600	132
19	XL20S2T2	1217	600	132
23	XL24S2T2	1217	600	132



**200A ISOLATOR INCOMER
c/w TYPE 1+2 SPD**

XL12S2T12

NO. of O/G TP WAYS	CAT. NO. TYPE 2 SPD	H	W	D
3	XL4S2T12	732	600	132
5	XL6S2T12	732	600	132
7	XL8S2T12	732	600	132
11	XL12S2T12	842	600	132
15	XL16S2T12	942	600	132
19	XL20S2T12	1217	600	132
23	XL24S2T12	1217	600	132

SURGE PROTECTION DEVICES

For surge protection Info, SPD selection chart, loose surge arrestors and enclosed surge arrestors please go to **pages 57, 58 & 59**



FEATURES:

- Available from 4 to 24 triple pole outgoing ways.
- Accepts MCBs from 2A to 63A and RCBOs from 6A to 45A (17.5 mm wide module).
- Key lock available for door (XLKL).
- Dual Earth and Neutral terminal bars.
- Removable gland plates top & bottom.
- Manufactured to BSEN 61439 - Part 1 & 3.

- The XL range of kWh metered boards and split load kWh metered boards, which can be used to meter lighting and power, have over 100% more cabling space than the standard equivalent three phase board. kWh meters are factory fitted to monitor the number of ways chosen to suit the application. Non-tariff as standard, tariff meter available on request

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately



XL8S125

125A ISOLATOR INCOMER DISTRIBUTION BOARDS

INCOMER FACTORY FITTED	NO. of O/G WAYS	CAT. NO.	H	W	D
125A TP Isolator	4	XL4S125	457	600	132
125A TP Isolator	6	XL6S125	512	600	132
125A TP Isolator	8	XL8S125	567	600	132
125A TP Isolator	12	XL12S125	732	600	132
125A TP Isolator	16	XL16S125	842	600	132
125A TP Isolator	20	XL20S125	942	600	132
125A TP Isolator	24	XL24S125	1217	600	132



XL4S2

200A ISOLATOR INCOMER DISTRIBUTION BOARDS

INCOMER FACTORY FITTED	NO. of O/G WAYS	CAT. NO.	H	W	D
200A TP Isolator	4	XL4S2	732	600	132
200A TP Isolator	6	XL6S2	732	600	132
200A TP Isolator	8	XL8S2	732	600	132
200A TP Isolator	12	XL12S2	842	600	132
200A TP Isolator	16	XL16S2	942	600	132
200A TP Isolator	20	XL20S2	1217	600	132
200A TP Isolator	24	XL24S2	1217	600	132



XL84SL

THREE PHASE SPLIT LOAD DISTRIBUTION BOARDS

INCOMER FACTORY FITTED	NO. of TP WAYS		CAT. NO.	H	W	D
	ISOLATOR	RCD				
100A TP Isolator	4	6	XL46SL	842	600	132
100A TP Isolator	4	8	XL48SL	842	600	132
100A TP Isolator	6	4	XL64SL	842	600	132
100A TP Isolator	6	6	XL66SL	842	600	132
100A TP Isolator	8	4	XL84SL	842	600	132

Fitted with a 100A 4pole 30 mA RCD as standard.



XLKL

KEY LOCK

DESCRIPTION	CAT. NO.	W	D
Key lock for door	XLKL	-	-

XL 3-PHASE DISTRIBUTION BOARDS

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately



XL8S1MD

METERED DISTRIBUTION BOARDS c/w METER

DESCRIPTION	kWh METER	CAT. NO.	H	W	D
4 way TP&N MCB Board	Digital	XL4S1MD	567	600	132
6 way TP&N MCB Board	Digital	XL6S1MD	732	600	132
8 way TP&N MCB Board	Digital	XL8S1MD	732	600	132
12 way TP&N MCB Board	Digital	XL12S1MD	842	600	132
16 way TP&N MCB Board	Digital	XL16S1MD	942	600	132

All above units are supplied complete with a 100A 4 pole incoming isolator as standard.



XL68MD

DID YOU KNOW?
Additional split load configurations available
on request.

SPLIT LOAD METERED DISTRIBUTION BOARDS

TP METER WAYS (LIGHTING)	TP METER WAYS (POWER)	kWh METER	CAT. NO.	H	W	D
4	6	Digital	XL46MD	969	600	132
6	8	Digital	XL68MD	1079	600	132
8	12	Digital	XL812MD	1299	600	132

SPLIT LOAD METERED BOARD INCOMING ISOLATOR KITS

Each individual XL distribution board unit with meter fitted must not exceed 100A full load current per phase. Select isolator incoming kit to satisfy the total load current demand.

DESCRIPTION	CAT. NO.	H	W	D
125A 4 pole isolator incoming kit	XLI125	400	600	132
200A 4 pole isolator incoming kit	XLI200	400	600	132



KWH2D

METERS & ENCLOSURES

DESCRIPTION	kWh METER	CAT. NO.	H	W	D
100A DP direct connect meter	Digital	KWH2D	90	75	73
100A 4P direct connect meter	Digital	KWH4D	90	125	73
100A DP meter enclosure only	-	KWH2E	383	235	125
100A 4P meter enclosure only	-	KWH4E	383	235	125

CASE STUDY:

HALFORDS SPECIAL DISTRIBUTION BOARDS



Halfords were previously purchasing pre-assembled, standard switch boards from an alternative overseas manufacturer, the design and lead time of which was becoming an issue and Halfords realised they required a more bespoke, future proof solution.

Following contact with Proteus Industrial Switchgear of Telford, a site visit to an existing store was arranged where further design discussions were held with the installation electricians. The discussions resulted in the design of a distribution panel incorporating multiple mcb boards, contactors, time switches and emergency lighting test equipment which were all designed to meet their future requirements.

An initial trial installation was successfully completed at the new Halfords store in Beckton.

The Store Development Manager said, "with Proteus being a UK based manufacturer it was easy to discuss our requirements and make any changes as the design progressed. The end result was a more cost effective panel board with reduced supply and site installation time."

BESPOKE SOLUTION

SITE VISITS

TECHNICAL SUPPORT FROM MANUFACTURER

BX RANGE FITTED WITH SURGE PROTECTION

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

FEATURES:

Proteus Switchgear offers a comprehensive range of Lightning and Surge Protection Devices for single and three phase applications. Whether it's a stand-alone device

or a pre-assembled SPD in a distribution board, Proteus can provide a coordinated system to meet your specific requirements



BX6S125T12

125A ISOLATOR INCOMER c/w SPD

NO. of O/G TP WAYS	CAT. NO. TYPE 2 SPD	CAT. NO. TYPE 1+2 SPD	H	W	D
3	BX4S125T2	BX4S125T12	390	410	110
5	BX6S125T2	BX6S125T12	442	410	110
7	BX8S125T2	BX8S125T12	495	410	110
11	BX12S125T2	BX12S125T12	600	410	110
15	BX16S125T2	BX16S125T12	810	410	110
19	BX20S125T2	BX20S125T12	1000	410	110
23	BX24S125T2	BX24S125T12	1180	410	110



BX8S2T12

200A ISOLATOR INCOMER c/w SPD

NO. of O/G TP WAYS	CAT. NO. TYPE 2 SPD	CAT. NO. TYPE 1+2 SPD	H	W	D
3	BX4S2T2	BX4S2T12	600	410	110
5	BX6S2T2	BX6S2T12	600	410	110
7	BX8S2T2	BX8S2T12	700	410	110
11	BX12S2T2	BX12S2T12	810	410	110
15	BX16S2T2	BX16S2T12	1000	410	110
19	BX20S2T2	BX20S2T12	1180	410	110
23	BX24S2T2	BX24S2T12	1180	410	110



BX12S250T2

250A ISOLATOR INCOMER c/w SPD

NO. of O/G TP WAYS	CAT. NO. TYPE 2 SPD	CAT. NO. TYPE 1+2 SPD	H	W	D
7	BX8S250T2	BX8S250T12	950	500	170
11	BX12S250T2	BX12S250T12	950	500	170
15	BX16S250T2	BX16S250T12	1300	500	170
19	BX20S250T2	BX20S250T12	1300	500	170
23	BX24S250T2	BX24S250T12	1300	500	170

SURGE PROTECTION DEVICES

For surge protection Info, SPD selection chart, loose surge arrestors and enclosed surge arrestors please go to **pages 57, 58 & 59**



FEATURES:

- Available in 4, 6, 8, 12, 16, 20 to 24 triple pole outgoing ways.
- Wide selection of factory fitted incoming devices to choose from to meet the demands of modern

installations.

- Accepts MCBs from 2A to 63A and RCBOs from 6A to 45A (17.5 mm wide module).
- Dual Earth and Neutral terminal bars.
- Manufactured to BSEN 61439 parts 1 & 3.
- Removable gland plates, top and bottom.

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

Door Options:
Supplied with
a solid door as
standard and can
be ordered with
a clear door fitted
be adding /CD to
the part code. (For
example:
BX6S125/CD)



BX8S125

125A ISOLATOR INCOMER DISTRIBUTION BOARDS

INCOMER (FACTORY FITTED)	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
125A TP Isolator	4	BX4S125 (4P)	390	410	110
125A TP Isolator	6	BX6S125 (4P)	442	410	110
125A TP Isolator	8	BX8S125 (4P)	495	410	110
125A TP Isolator	12	BX12S125 (4P)	600	410	110
125A TP Isolator	16	BX16S125 (4P)	810	410	110
125A TP Isolator	20	BX20S125 (4P)	1000	410	110
125A TP Isolator	24	BX24S125 (4P)	1180	410	110

(4P) - Add suffix '4P' for 4 pole incomer fitted boards e.g. BX4S1254P



BX12S2

200A ISOLATOR INCOMER DISTRIBUTION BOARDS

INCOMER (FACTORY FITTED)	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
200A TP Isolator	4	BX4S2	600	410	110
200A TP Isolator	6	BX6S2	600	410	110
200A TP Isolator	8	BX8S2	700	410	110
200A TP Isolator	12	BX12S2	810	410	110
200A TP Isolator	16	BX16S2	1000	410	110
200A TP Isolator	20	BX20S2	1180	410	110
200A TP Isolator	24	BX24S2	1180	410	110



BX8S250

250A ISOLATOR INCOMER DISTRIBUTION BOARDS

INCOMER (FACTORY FITTED)	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
250A TP Isolator	8	BX8S250	950	500	170
250A TP Isolator	12	BX12S250	950	500	170
250A TP Isolator	16	BX16S250	1300	500	170
250A TP Isolator	20	BX20S250	1300	500	170
250A TP Isolator	24	BX24S250	1300	500	170

BX 3-PHASE DISTRIBUTION BOARDS

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately



BX6P30

63A TYPE A 4 POLE 30 mA RCD INCOMER DISTRIBUTION BOARDS

INCOMER (FACTORY FITTED)	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
63A 4P 30 mA RCD	4	BX4P30	390	410	110
63A 4P 30 mA RCD	6	BX6P30	442	410	110
63A 4P 30 mA RCD	8	BX8P30	495	410	110
63A 4P 30 mA RCD	12	BX12P30	600	410	110
63A 4P 30 mA RCD	16	BX16P30	810	410	110
63A 4P 30 mA RCD	20	BX20P30	1000	410	110
63A 4P 30 mA RCD	24	BX24P30	1180	410	110



BX6Q30

80A TYPE A 4 POLE 30 mA RCD INCOMER DISTRIBUTION BOARDS

INCOMER (FACTORY FITTED)	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
80A 4P 30 mA RCD	4	BX4Q30	390	410	110
80A 4P 30 mA RCD	6	BX6Q30	442	410	110
80A 4P 30 mA RCD	8	BX8Q30	495	410	110
80A 4P 30 mA RCD	12	BX12Q30	600	410	110
80A 4P 30 mA RCD	16	BX16Q30	810	410	110
80A 4P 30 mA RCD	20	BX20Q30	1000	410	110
80A 4P 30 mA RCD	24	BX24Q30	1180	410	110



BXM14

BX MULTI PURPOSE UNITS

DESCRIPTION	CAT. NO. (SOLID DOOR)	H	W	D
14 Modules	BXM14	265	410	110
28 Modules (2x 14 mod banks)	BXM28	495	410	110



DID YOU KNOW?

BX boards are supplied with a solid door as standard and can be ordered with a clear door fitted by adding /CD to the part code (For example: BX6S2/CD).



BX4R30

100A TYPE A 4 POLE 30 mA RCD INCOMER DISTRIBUTION BOARDS

INCOMER (FACTORY FITTED)	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
100A 4P 30 mA RCD	4	BX4R30	390	410	110
100A 4P 30 mA RCD	6	BX6R30	442	410	110
100A 4P 30 mA RCD	8	BX8R30	495	410	110
100A 4P 30 mA RCD	12	BX12R30	600	410	110
100A 4P 30 mA RCD	16	BX16R30	810	410	110
100A 4P 30 mA RCD	20	BX20R30	1000	410	110
100A 4P 30 mA RCD	24	BX24R30	1180	410	110



BX6R300

100A TYPE A 4 POLE 300 mA RCD INCOMER DISTRIBUTION BOARDS

INCOMER (FACTORY FITTED)	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
100A 4P 300 mA RCD	4	BX4R300	390	410	110
100A 4P 300 mA RCD	6	BX6R300	442	410	110
100A 4P 300 mA RCD	8	BX8R300	495	410	110
100A 4P 300 mA RCD	12	BX12R300	600	410	110
100A 4P 300 mA RCD	16	BX16R300	810	410	110
100A 4P 300 mA RCD	20	BX20R300	1000	410	110
100A 4P 300 mA RCD	24	BX24R300	1180	410	110

100A 300 mA boards available with Type S RCD on request.



BX6R100

100A TYPE A 4 POLE 100 mA RCD INCOMER DISTRIBUTION BOARDS

INCOMER (FACTORY FITTED)	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
100A 4P 100 mA RCD	4	BX4R100	390	410	110
100A 4P 100 mA RCD	6	BX6R100	442	410	110
100A 4P 100 mA RCD	8	BX8R100	495	410	110
100A 4P 100 mA RCD	12	BX12R100	600	410	110
100A 4P 100 mA RCD	16	BX16R100	810	410	110
100A 4P 100 mA RCD	20	BX20R100	1000	410	110
100A 4P 100 mA RCD	24	BX24R100	1180	410	110

100A 100 mA boards available with Type S RCD on request.

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

Door Options:
Supplied with
a solid door as
standard and can
be ordered with
a clear door fitted
by adding /CD to
the part code. (For
example:
BX6R30/CD)



BXS2

BX ACCESSORIES

DESCRIPTION	CAT. NO.	H	W	D
Spreader box	BXSB1	265	410	110
Spreader box	BXSB2	495	410	110
100/125A Single phase conv kit	BXSCK1	-	-	-
200A Single phase conv kit	BXSCK2	-	-	-
Key lock for door	XLKL	-	-	-

ABX 3 PHASE DISTRIBUTION BOARDS

Measurements:
Millimetres (mm)
unless stated
otherwise

**Outgoing
Switchgear:**
Supplied separately

Door Options:
Supplied with a solid
door as standard and
can be ordered with
a clear door fitted
be adding /CD to
the part code. (For
example:
ABX6S1/CD)

FEATURES:

- Busbars are 80A max with 100A intermittent rating and are one piece construction.
- Cleanline overall hinged door (key operated lockable door optional).

- Accepts RCBOs and MCBs, 17.5 mm wide module.
- Isolators can be locked in ON or OFF position (using DLPX1 locking device).
- Robust IP3X steel construction.
- ABX Manufactured to BSEN 61439 parts 1 & 3.



ABX2S1

3-PHASE ABX BOARD - HORIZONTAL

INCOMER FACTORY FITTED	NO. of O/G TP (SOLID WAYS DOOR)	CAT. NO.	H	W	D
100A 4P Isolator	2	ABX2S1	269	326	110
100A 4P Isolator	4	ABX4S1	269	436	110
100A 4P Isolator	6	ABX6S1	269	562	110
100A 4P Isolator	8	ABX8S1	269	673	110
100A 4P Isolator	12	ABX12S1	269	900	110



ABX4S1V

3-PHASE ABX BOARD - VERTICAL

INCOMER FACTORY FITTED	NO. of O/G TP (SOLID WAYS DOOR)	CAT. NO.	H	W	D
100A 4P Isolator	2	ABX2S1V	326	269	110
100A 4P Isolator	4	ABX4S1V	436	269	110
100A 4P Isolator	6	ABX6S1V	562	269	110
100A 4P Isolator	8	ABX8S1V	673	269	110
100A 4P Isolator	12	ABX12S1V	900	269	110



ABX2R30

HORIZONTAL ABX TYPE A RCD BOARDS

NO. of O/G TP WAYS	CAT. NO. 100A 30 mA RCD INCOMER	CAT. NO. 100A 100 mA RCD INCOMER	CAT. NO. 100A 300 mA RCD INCOMER	H	W	D
2	ABX2R30	ABX2R100	ABX2R300	269	326	110
4	ABX4R30	ABX4R100	ABX4R300	269	436	110
6	ABX6R30	ABX6R100	ABX6R300	269	562	110
8	ABX8R30	ABX8R100	ABX8R300	269	673	110
12	ABX12R30	ABX12R100	ABX12R300	269	900	110



ABX4R300V

VERTICAL ABX TYPE A RCD BOARDS

NO. of O/G TP WAYS	CAT. NO. 100A 30 mA RCD INCOMER	CAT. NO. 100A 100 mA RCD INCOMER	CAT. NO. 100A 300 mA RCD INCOMER	H	W	D
2	ABX2R30V	ABX2R100V	ABX2R300V	326	269	110
4	ABX4R30V	ABX4R100V	ABX4R300V	436	269	110
6	ABX6R30V	ABX6R100V	ABX6R300V	562	269	110
8	ABX8R30V	ABX8R100V	ABX8R300V	673	269	110
12	ABX12R30V	ABX12R100V	ABX12R300V	900	269	110

CASE STUDY:

DRAYTON MANOR THEME PARK - THOMAS LAND PRO2000 LV SWITCHBOARDS



Proteus Switchgear PRO2000 LV switchboard was designed to tap off from an 11kV ring to supply the vast majority of the Thomas Land's electrical needs.

The timescale for the project was tight from the onset and as quoted by the contractor only Proteus Switchgear offered to meet the challenge. The goods were specified, quoted, designed and supplied within 8 weeks. Keeping the progress of the project on schedule and supporting the contractor along the way with respect to technical support and advice were key to customer satisfaction.

Proteus Switchgear were also noted for their excellent co-operation and team work when it came to accommodating

a significant mid-project modification to the switchboard involving the upgrading of an outgoing switch fuse from 100A to 250A. With the assistance of Proteus staff the work involved in changeover was completed in less than 1 hour

The contractor claims the high profile of the installation and overall successful completion and handover of the project has also increased the profile of his company and led to further job opportunities for his team with work on this scale.

BESPOKE SOLUTION

IN-HOUSE DESIGN FACILITIES

TECHNICAL SUPPORT FROM MANUFACTURER

Measurements:
Millimetres (mm)
unless stated
otherwise

RCD Incomer:
Factory fitted 100A
4 pole RCD incomer
options available on
request

Key Lock Options:
GRP boards part
code - GRPKL

Steel boards part
code - STLKL

FEATURES:

- All boards will accept RCBOs and MCBs 17.5 mm wide modules.
- Isolators can be locked in ON or OFF position (using DL1 locking device).

- Manufactured to BSEN 61439 parts 1 & 3.



PDU4SS

125A TP ISOLATOR - STEEL ENCLOSURE

INCOMER FACTORY FITTED	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
125A TP isolator	4	PDU4SS	500	400	200
125A TP isolator	6	PDU6SS	600	400	200
125A TP isolator	8	PDU8SS	600	400	200
125A TP isolator	12	PDU12SS	800	400	200
125A TP isolator	16	PDU16SS	800	400	200



PDU6S2S

200A TP ISOLATOR - STEEL ENCLOSURE

INCOMER FACTORY FITTED	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
200A TP isolator	4	PDU4S2S	600	400	200
200A TP isolator	6	PDU6S2S	600	400	200
200A TP isolator	8	PDU8S2S	800	400	200
200A TP isolator	12	PDU12S2S	1100	400	200
200A TP isolator	16	PDU16S2S	1300	400	200



PDU4S

125A TP ISOLATOR - GRP ENCLOSURE

INCOMER FACTORY FITTED	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
125A TP isolator	4	PDU4S	500	400	200
125A TP isolator	6	PDU6S	600	500	250
125A TP isolator	8	PDU8S	600	500	250
125A TP isolator	12	PDU12S	800	600	300
125A TP isolator	16	PDU16S	800	600	300



PDU4S2

200A TP ISOLATOR - GRP ENCLOSURE

INCOMER FACTORY FITTED	NO. of O/G TP WAYS	CAT. NO. (SOLID DOOR)	H	W	D
200A TP isolator	4	PDU4S2	600	500	250
200A TP isolator	6	PDU6S2	600	500	250
200A TP isolator	8	PDU8S2	800	600	300

FEATURES:

- AC21 - Switching of resistive loads, including moderate overloads
- AC23 - Switching of motor loads or other high inductive loads

AC23 RATED SWITCH DISCONNECTOR FUSES IP65 STEEL ENCLOSURE

CURRENT RATING A AC21 / AC23	NO. of POLES	CAT. NO.	H	W	D1	D2
63	3P + N	WFS63/IP65SS	500	400	200	70
100	3P + N	WFS100/IP65SS	500	400	200	70
125	3P + N	WFS125/IP65SS	600	400	200	70
160	3P + N	WFS160/IP65SS	600	400	200	70
200	3P + N	WFS200/IP65SS	700	500	300	70

AC23 RATED SWITCH DISCONNECTOR FUSES IP65 GRP ENCLOSURE

CURRENT RATING A AC21 / AC23	NO. of POLES	CAT. NO.	H	W	D1	D2
63	3P + N	WFS63/IP65	500	400	200	70
100	3P + N	WFS100/IP65	500	400	200	70
125	3P + N	WFS125/IP65	600	500	250	70
160	3P + N	WFS160/IP65	600	500	250	70
200	3P + N	WFS200/IP65	800	600	300	70



WFS100/IP65

SWITCH DISCONNECTOR FUSES IP65 STEEL ENCLOSURE

CURRENT RATING A AC21 / AC23	NO. of POLES	CAT. NO.	H	W	D1	D2
20/11	3P + N	WSF20/IP65SS	400	300	200	40
32/18	3P + N	WSF32/IP65SS	400	300	200	40
63/35	3P + N	WSF63/IP65SS	500	400	200	40
100/70	3P + N	WSF100/IP65SS	500	400	200	40

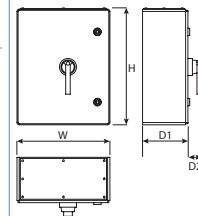
SWITCH DISCONNECTOR FUSES IP65 GRP ENCLOSURE

CURRENT RATING A AC21 / AC23	NO. of POLES	CAT. NO.	H	W	D1	D2
20/11	3P + N	WSF20/IP65	400	300	200	40
32/18	3P + N	WSF32/IP65	400	300	200	40
63/35	3P + N	WSF63/IP65	500	400	200	40
100/70	3P + N	WSF100/IP65	500	400	200	40



WSF63/IP65SS

Measurements:
Millimetres (mm)
unless stated
otherwise



Additional
ratings available
upon request.
Manufactured to
BSEN 60947.

IP67 ROTARY ISOLATORS

For 3 & 4 pole IP67 rotary isolators
please go to **pages 122 & 123**



Measurements:
Millimetres (mm)
unless stated
otherwise

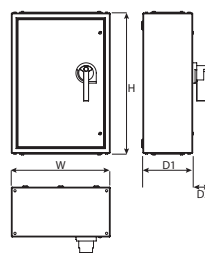
FEATURES:

- Switch mechanism rated at 65kA when fitted with appropriate BS88 fuses.
- Heavy duty interlocking handle.
- Fully rated BS88 fuses fitted.
- 4 pole configuration available on request.
- Built-in cable box suitable for most applications.
- Manufactured to BSEN 60947 parts 1 & 3.
- AC21 - Switching of resistive loads, including moderate overloads
- AC23 - Switching of motor loads or other high inductive loads
- Removable endplates



AC23 RATED SWITCH DISCONNECTOR FUSES

63A - 800A Triple Pole and Neutral Fuse Switch complete with Built In Spreader Boxes and Fuses



U200FS

CURRENT RATING A-AC23	CSA MAX mm ²	BOLT SIZE (METRIC)	POWER RATING AT 400 V (kW)	PROTEUS BS88 PT.2 FUSE FITTED	CAT. NO.	H	W	D1	D2
63	95*	M8	33	PBD	U63FS	500	350	185	70
100	95*	M8	55	PCD	U100FS	500	350	185	70
125	95*	M8	59	PDD	U125FS	500	350	185	70
160	95*	M8	75	PDD	U160FS	500	350	185	70
200	150/185**	M10	110	PDD	U200FS	700	400	255	70
250	150/185**	M10	132	PED	U250FS	700	400	255	70
315	185**	M10	185	PED	U315FS	700	400	255	70
400	185/240#	M10	220	PED	U400FS	900	400	330	70
500	-	M12	275	PFF	U500FS	1300	500	300	70
630	-	M12	300	PFF	630FS	1300	500	300	55
800	-	M12	450	PGF	800FS***	1625	654	500	55

* - when using 95 mm² cable it is recommended that the UCB1 is fitted.
 ** - when using 185 mm² cable it is recommended that the UCB2 is fitted.
 # - when using 240 mm² cable it is recommended that the UCB4 is fitted.
 *** - Floor standing unit.

IP67 ROTARY ISOLATORS

For 3 & 4 pole IP67 rotary isolators
please go to **pages 122 & 123**



FEATURES:

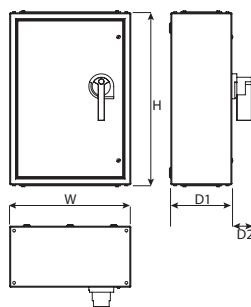
- AC21 - Switching of resistive loads, including moderate overloads
- AC23 - Switching of motor loads or other high inductive loads

Measurements:
Millimetres (mm)
unless stated
otherwise



AC23 RATED SWITCH DISCONNECTORS

63A - 630A Triple Pole and Neutral Metalclad Switch Disconnecter



U200S

CURRENT RATING A-AC23	CSA MAX mm ²	BOLT SIZE (METRIC)	POWER RATING AT 400 V (kW)	CAT. NO.	H	W	D1	D2
63	95*	M8	33	U63S	500	350	185	70
100	95*	M8	55	U100S	500	350	185	70
125	95*	M8	59	U125S	500	350	185	70
160	95*	M8	75	U160S	500	350	185	70
200	150/185**	M10	110	U200S	700	400	255	70
250	150/185**	M10	132	U250S	700	400	255	70
315	185**	M10	185	U315S	700	400	255	70
400	185/240#	M10	220	U400S	900	400	330	70
500	-	M12	275	U500S	1300	500	300	70
630	-	M12	300	U630S	1300	500	300	70

* - when using 95 mm² cable it is recommended that the UCB1 is fitted.

** - when using 185 mm² cable it is recommended that the UCB2 is fitted.

- when using 240 mm² cable it is recommended that the UCB4 is fitted.



UCB2

ACCESSORIES

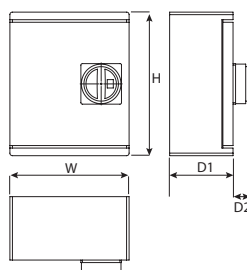
DESCRIPTION	CAT. NO.	H	W	D
Cable spreader box to suit up to U160FS/ U160S	UCB1	200	350	185
Cable spreader box to suit U200FS/U200S upto U315FS/U315S	UCB2	200	400	255
Cable spreader box to suit U400FS/U400S	UCB4	200	400	330
Fuse barrier for U250FS/S - U400FS/S	UFB200	-	-	-
Fuse barrier for U063FS/S - U160FS/S	UFB63	-	-	-
Handle for UFS/S	UFH	-	-	-
Shaft for UFS/S	UFS	-	-	-

Measurements:
Millimetres (mm)
unless stated
otherwise

FEATURES:

- Fully insulated high visibility rotary operating handle.
- Padlockable in off position for security.
- Finger protected cable terminations.

- Epoxy powder coat finish.
- Robust, heavy duty steel enclosure.
- Folded steel construction for extra rigidity.
- Flush fitting door.
- Door removable for ease of installation.
- Manufactured to BSEN 60947 parts 1 & 3.



EF20TN

SWITCH DISCONNECTOR FUSES

20A - 100A Triple Pole and Neutral
Switch Fuse c/w Fuses

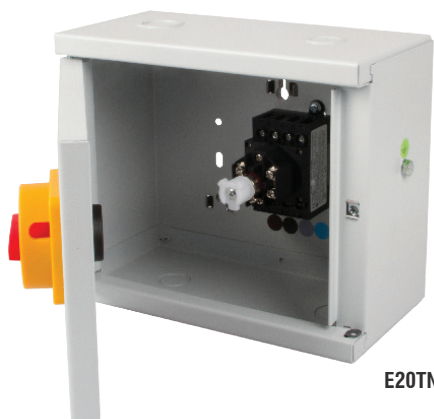
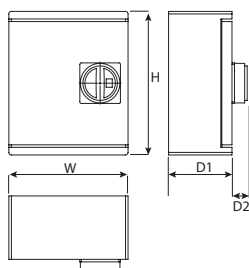
CURRENT RATING A-AC21A/AC22A	NO. of POLES	CURRENT RATING A-AC23A	POWER AT 400 V (kW) AC23A	MAX. STRANDED CABLE CSA mm ²	PROTEUS FUSE TO BS88 PT.2&6 SPARE FUSE UNIT	CAT. NO.	H	W	D1	D2
20	3 P+N	11	5.5	16	PNSD/TDH2	Part [6] EF20TN	283	235	125	35
20	1 P+N	-	-	16	PNSD/TDH2	Part [6] EF20S	283	235	125	35
20	2 P+N	-	-	16	PNSD/TDH2	Part [6] EF20D	283	235	125	35
32	3 P+N	18	9	16	PNSD/TDH3	Part [6] EF32TN	283	235	125	35
32	1 P+N	-	-	16	PNSD/TDH3	Part [6] EF32S	283	235	125	35
32	2 P+N	-	-	16	PNSD/TDH3	Part [6] EF32D	283	235	125	35
63	3 P+N	63	35	35	TIS/TDH6	Part [2] EF63TN	420	300	145	45
63	1 P+N	-	-	35	TIS/TDH6	Part [2] EF63S	420	300	145	45
63	2 P+N	-	-	35	TIS/TDH6	Part [2] EF63D	420	300	145	45
100	3 P+N	100	50	70 (in) 35 (out)	TCP/TDH10	Part [2] EF100TN	420	350	145	45
100	1 P+N	-	-	35	TCP/TDH10	Part [2] EF100S	420	350	145	45
100	2 P+N	-	-	35	TCP/TDH10	Part [2] EF100D	420	350	145	45

Key features - as above plus, Fully rated fuses fitted. Cable Termination Type - Tunnel. TIS and TCP are 'Bolt in' fuses to BS88 pt2. Accessory - MN10 is a screw fixed add-on switched neutral pole for 63/100A units



SWITCH DISCONNECTORS

20A - 200A Triple Pole and Neutral
Metalclad Switch Disconnecter



E20TN

Measurements:
Millimetres (mm)
unless stated
otherwise

CURRENT RATING A-AC21A/AC22A	CURRENT RATING A-AC23A	POWER AT 400 V (kW) AC23A	MAX. STRANDED CABLE CSA mm ²	CABLE TERMINATION TYPE	CAT. NO.	H	W	D1	D2
20	11	6.5	16	Tunnel	E20TN	195	235	125	35
32	28	15	16	Tunnel	E32TN	195	235	125	35
63	63	37	35	Tunnel	E63TN	383	235	125	35
100	100	50	70	Tunnel	E100TN	383	235	125	35
160	80	75	70	Tunnel	E160TN	420	300	145	45
200	125	75	70	Tunnel	E200TN	420	300	145	45

ADD ON NEUTRAL

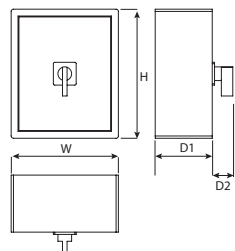
Suitable for Switch Disconnectors &
Switch Disconnecter Fuses



EN100

DESCRIPTION	CURRENT RATING	CAT. NO.
20 / 32 A Add on neutral	20 A / 32 A	EN20/32
63 A Add on neutral	63 A	EN63
100 A Add on neutral	100 A	EN100

Measurements:
Millimetres (mm)
unless stated
otherwise



FEATURES:

- Manufactured to BSEN 60947 Parts 1 & 3.
- Robust enclosure powder coated to RAL7035.
- Removable end plates.



TCO1254

STEEL ENCLOSURES TO IP3X - 100 - 800A

CURRENT RATING A AC21	NO. of POLES	CABLE SIZE mm ²	CAT. NO.	H	W	D1	D2
100	4	50 (M8)	TCO1004	500	440	175	50
125	4	50 (M8)	TCO1254	500	440	175	50
160	4	95 (M8)	TCO1604	700	565	190	50
200	4	95 (M8)	TCO2004	700	565	190	50
250	4	240 (M10)	TCO2504	800	720	220	50
315	4	240 (M10)	TCO3154	800	720	220	50
400	4	240 (M10)	TCO4004	800	720	220	50
630	4	300 (M12)	TCO6304	1300	1300	300	70
800	4	300 (M12)	TCO8004	1300	1300	300	70



CO204

GRP ENCLOSURES TO IP65 - 20 & 32A

CURRENT RATING A AC21	NO. of POLES	CABLE SIZE mm ²	CAT. NO.	H	W	D1	D2
20	2	2.5	CO/202	126	101	96	25
20	4	2.5	CO/204	126	101	96	25
32	2	6	CO/322	176	116	111	25
32	4	6	CO/324	176	116	111	25



CO633

GRP ENCLOSURES TO IP65 - 63 & 100A

CURRENT RATING A AC21	NO. of POLES	CABLE SIZE mm ²	CAT. NO.	H	W	D1	D2
63	2	35	CO/632	240	160	169	25
63	4	35	CO/634	246	160	169	25
100	2	35	CO/1002	240	160	169	25
100	4	35	CO/1004	240	160	169	25

CASE STUDY:

INNOVIA FILMS PRO2000 SWITCHBOARDS



In March 2014, Innovia Films announced that they had signed a contract with the Bank of England for Innovia Security to supply Guardian® polymer substrate for the next generation of UK sterling bank notes.

Proteus Industrial has supplied Innovia Films since 2010 in an on-going programme of replacing much of their old switchgear with the latest, and in some cases totally bespoke, control equipment. By working closely with the Electrical Engineering Manager and the electrical team at Innovia, a new order has just been placed by City Electrical Factors (CEF) Carlisle branch, for two purpose built PRO2000 switchboards to distribute 400V

power throughout the state of the art Innovia Security facility as part of the programme.

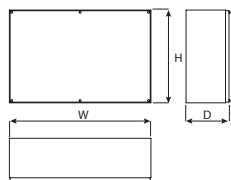
Designed and built in the Proteus factory in Telford, the customer was able to see the switch board being built to their unique specification. "As a British manufacturer ourselves it is great to be able to talk and actually see our own panel being built" said the customer, "I cannot think of another company left in the UK that could offer this service".

BESPOKE SOLUTION

IN-HOUSE DESIGN FACILITIES

TECHNICAL SUPPORT FROM MANUFACTURER

Measurements:
Millimetres (mm)
unless stated
otherwise



Higher Ratings:
Available on request

FEATURES:

- Manufactured to BSEN 61439-1 & 2.
- 4 pole configuration.
- 6 ratings from 100A to 800A.

- 36kA Icc.
- Fully rated neutral.
- Twin bar design from 100A up to 800A.
- Set of 4 clamps supplied with each chamber.



100BC2

100A BUSBAR CHAMBERS

CURRENT RATING A	NO. of POLES	CAT. NO.	H	W	D
100	4	100BC2	400	610	190
100	4	100BC3	400	915	190
100	4	100BC4	400	1220	190
100	4	100BC6	400	1830	190



200BC3

200A BUSBAR CHAMBERS

CURRENT RATING A	NO. of POLES	CAT. NO.	H	W	D
200	4	200BC2	400	610	190
200	4	200BC3	400	915	190
200	4	200BC4	400	1220	190
200	4	200BC6	400	1830	190



300BC3

315A BUSBAR CHAMBERS

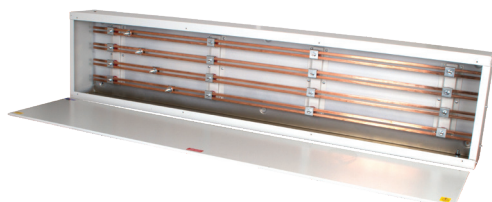
CURRENT RATING A	NO. of POLES	CAT. NO.	H	W	D
315	4	300BC2	400	610	190
315	4	300BC3	400	915	190
315	4	300BC4	400	1220	190
315	4	300BC6	400	1830	190



400BC4

400A BUSBAR CHAMBERS

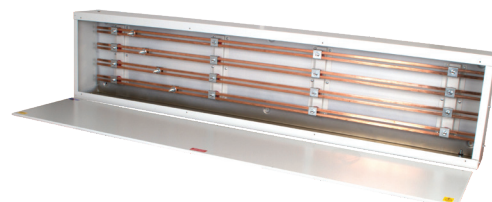
CURRENT RATING A	NO. of POLES	CAT. NO.	H	W	D
400	4	400BC2	400	610	190
400	4	400BC3	400	915	190
400	4	400BC4	400	1220	190
400	4	400BC6	400	1830	190



600BC6

630A BUSBAR CHAMBERS

CURRENT RATING A	NO. of POLES	CAT. NO.	H	W	D
630	4	600BC2	400	610	190
630	4	600BC3	400	915	190
630	4	600BC4	400	1220	190
630	4	600BC6	400	1830	190



800BC6

800A BUSBAR CHAMBERS

CURRENT RATING A	NO. of POLES	CAT. NO.	H	W	D
800	4	800BC3	400	915	190
800	4	800BC4	400	1220	190
800	4	800BC6	400	1830	190



BLC6/23

M6 BOLT SIZE

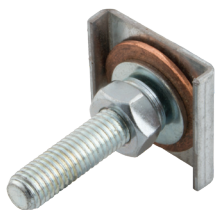
BOLTS TO SUIT BUSBAR	BOLT SIZE (METRIC)	MAX. CABLE SIZE mm ²	CAT. NO.
100 - 200A Rated	M6	70	BLC6/23
315 - 800A Rated	M6	70	BLC6/48



BLC8/23

M8 BOLT SIZE

BOLTS TO SUIT BUSBAR	BOLT SIZE (METRIC)	MAX. CABLE SIZE mm ²	CAT. NO.
100 - 200A Rated	M8	150	BLC8/23
315 - 800A Rated	M8	150	BLC8/48



BLC10/48

M10 BOLT SIZE

BOLTS TO SUIT BUSBAR	BOLT SIZE (METRIC)	MAX. CABLE SIZE mm ²	CAT. NO.
315 - 800A Rated	M10	150	BLC10/48



BCC240/48

CLAMP

BOLTS TO SUIT BUSBAR	BOLT SIZE (METRIC)	MAX. CABLE SIZE mm ²	CAT. NO.
100 - 200A Rated	Clamp	185	BCC185/23
315 - 800A Rated	Clamp	185	BCC185/48
315 - 800A Rated	Bolt	240	BCC240/48

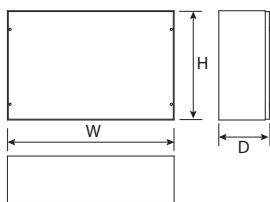
Measurements:
Millimetres (mm)
unless stated
otherwise

Measurements:
Millimetres (mm)
unless stated
otherwise

FEATURES:

- Designed to meet protection and combustible standards IP65 and IK08.
- Available in 6 sizes.
- Supplied in grey (RAL 7035) with solid door and

- base unit (internal mounting plate).
- Wall thickness on the range is 3 – 3.5 mm.
- Made from UL approved ABS-HB flame retardant plastic.
- Complying with BS EN 60529, BS EN 62208,
- CEI23-48 & CEI23-49



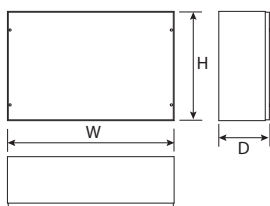
MULTIPURPOSE IP65 ENCLOSURES

IP65 ABS Enclosure with Back Plate Fitted and A Solid Grey Door



IP65E504024

DESCRIPTION	CAT. NO.	H	W	D
IP65 enclosure	IP65E302013	300	200	130
IP65 enclosure	IP65E352515	350	250	150
IP65 enclosure	IP65E403022	400	300	220
IP65 enclosure	IP65E504024	500	400	240
IP65 enclosure	IP65E604020	600	400	200
IP65 enclosure	IP65E705025	700	500	250



MULTIPURPOSE IP65 ENCLOSURES

IP65 ABS Enclosure with Back Plate Fitted and A Translucent Door



IP65E604020/CD

DESCRIPTION	CAT. NO.	H	W	D
IP65 enclosure	IP65E302013/CD	300	200	130
IP65 enclosure	IP65E352515/CD	350	250	150
IP65 enclosure	IP65E403022/CD	400	300	220
IP65 enclosure	IP65E504024/CD	500	400	240
IP65 enclosure	IP65E604020/CD	600	400	200
IP65 enclosure	IP65E705025/CD	700	500	250

FEATURES:

- Compliant with BSEN 60947-4, CSA approved and UL Listing.
- Terminal marking to EN50005.
- Climate rating tested to DIN50 016 and IEC68.

- Standard 230V a.c. coil voltage.
- Generous cabling connections.
- Clear identification of contact position and function.
- Full range of auxiliary components.

Measurements:
Millimetres (mm)
unless stated
otherwise



PC063230V

3 POLE CONTACTORS

POWER RATING (KW) 400 V	AC1 RATING A AT 400 V	AC3 RATING A AT 400 V	3 POLE CAT. NO.
4	20	9	PC020230V
5.5	25	12	PC025230V
11	32	22	PC032230V
22	63	50	PC063230V
45	100	85	PC100230V
75	200	150	PC200230V



HLC100

ENCLOSED HEATING AND LIGHTING CONTACTORS

Conform to BSEN 60947-4.

AC1 RATING A	AC3 RATING A	AUX. CONTACTS FITTED	CAT. NO.	H	W	D
25	12	1 NO	HLC25	200	200	170
32	22	1 NO	HLC32	200	200	170
63	50	1 NO/1 NC	HLC63	300	300	170
100	85	1 NO/1 NC	HLC100	300	300	170
200	150	1 NO/1 NC	HLC200	700	400	300



EM/STOP

IP65 EMERGENCY STOP PUSH BUTTONS

DESCRIPTION	CAT. NO.	H	W	D
Emergency Stop Push Button - Twist Release	EM/STOP*	72	70	63
N/C Contact Block To Suit EM/STOP	EMCB1NC	-	-	-
N/O Contact Block To Suit EM/STOP	EMCB1NO	-	-	-

* - Contact configuration - 1NC



MEMI

IP65 EMERGENCY STOP PUSH BUTTONS

DESCRIPTION	CAT. NO.	H	W	D
Neon Ind./Twist Release	MEMI*	72	80	50
Key release	MEMK*	72	80	50
Twist release	MENT*	72	80	50
Twist release w/ safety snap	MEMSS*	72	80	50
N/C Contact Block To Suit MEM....	PCB1NC	-	-	-
N/O Contact Block To Suit MEM...	PCB1NO	-	-	-

* - Contact configuration - 1NC/1NO

EARTH BARS

Measurements:

Millimetres (mm)
unless stated
otherwise

Bolt Sizes:

Main bolts M12
Outgoing bolts M8

Higher Rating:

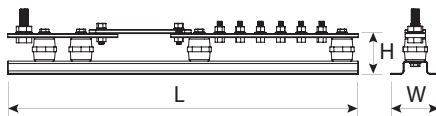
Available on request
up to 2000A

FEATURES:

- Earth Bars are manufactured from HDHC copper supported on glass reinforced polyester insulators. The CSA of the bar is nominally 150 mm² (25 mm x 6 mm / 1" x 1/4") with a current rating of 400A

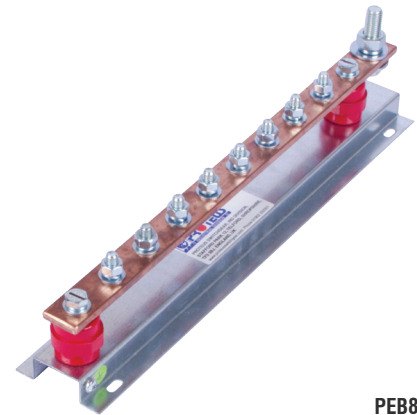
and 300 mm² (30 mm x 10 mm) for 800A.

- The insulators are mounted on a steel 'top hat' section for fixing to the wall.
- Mounted on insulated supports (may be used as neutral bars).

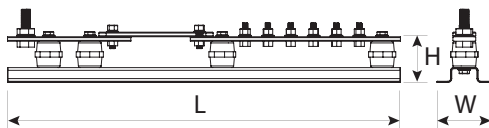


15 kA Is, 30 kA PEAK. 400A EARTH BARS

NO. of O/G CONNECTIONS	INTEGRAL TEST LINK	CAT. NO.	L	W	H
4	No	PEB4	245	65	68
6	No	PEB6	315	65	68
8	No	PEB8	385	65	68
12	No	PEB12	525	65	68
6	Yes	PEBTL6	470	65	68
8	Yes	PEBTL8	540	65	68
12	Yes	PEBTL12	680	65	68

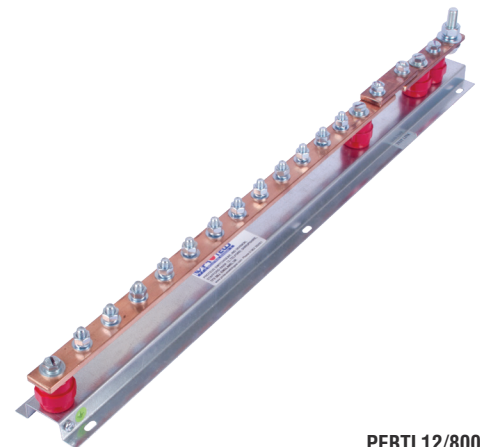


PEB8



30 kA Is, 63 kA PEAK. 800A EARTH BARS

NO. of O/G CONNECTIONS	INTEGRAL TEST LINK	CAT. NO.	L	W	H
6	No	PEB6/800	315	65	68
8	No	PEB8/800	385	65	68
12	No	PEB12/800	525	65	68
6	Yes	PEBTL6/800	470	65	68
8	Yes	PEBTL8/800	540	65	68
12	Yes	PEBTL12/800	680	65	68



PEBTL12/800



BESPOKE POWER DISTRIBUTION CONFIGURATIONS FROM PROTEUS

Proteus offer a large range of custom designed, bespoke LV switchboards, panelboards, distribution boards and consumer units. Ensure your customer's exact requirements are met with a completely bespoke solution.

On-Site Survey

Our team are happy to visit your site to establish your project requirements

Designed to Your Specification

Proteus utilise the latest drawing software and provide panel layout drawings at both quotation and construction stages

Testing & Compliance

All products tested to relevant British & European Standards and the 18th Edition Wiring Regulations

Be involved

You're welcome to visit the factory to see your board being built and discuss build requirements



Measurements:

Millimetres (mm)
unless stated
otherwise

Use the colour
code to identify the
supplying Proteus
Division:

Division:



Blue box:

Proteus Consumer



No box:

Proteus Industrial



616B

SINGLE POLE MCBs - B CURVE

CURRENT RATING (A)	6 kA	10 kA	15 kA
1	601B	-	-
2	602B	1002/2	1502/2
4	604B	1004/2	1504/2
6	606B	1006/2	1506/2
10	610B	1010/2	1510/2
16	616B	1016/2	1516/2
20	620B	1020/2	1520/2
25	625B	-	1525/2
32	632B	1032/2	1532/2
40	640B	1040/2	1540/2
45	645B	-	-
50	650B	1050/2	1550/2
63	663B	1063/2	1563/2



1025/3

SINGLE POLE MCBs - C CURVE

CURRENT RATING (A)	6 kA	10 kA	15 kA
1	-	-	-
2	-	1002/3	1502/3
4	-	1004/3	1504/3
6	606C	1006/3	1506/3
10	610C	1010/3	1510/3
16	616C	1016/3	1516/3
20	620C	1020/3	1520/3
25	625C	1025/3	1525/3
32	632C	1032/3	1532/3
40	640C	1040/3	1540/3
45	-	-	-
50	650C	1050/3	1550/3
63	663C	1063/3	1563/3



1532/4

SINGLE POLE MCBs - D CURVE

CURRENT RATING (A)	10 kA	15 kA
1	-	-
2	-	1502/4
4	-	1504/4
6	1006/4	1506/4
10	1010/4	1510/4
16	1016/4	1516/4
20	1020/4	1520/4
25	-	1525/4
32	1032/4	1532/4
40	1040/4	1540/4
45	-	-
50	1050/4	1550/4
63	1063/4	1563/4



21016/3

DOUBLE POLE MCBs - C CURVE

CURRENT RATING (A)	10 kA DP
6	21006/3
10	21010/3
16	21016/3
20	21020/3
25	21025/3
32	21032/3
40	21040/3
50	21050/3
63	21063/3



31032/2

TRIPLE POLE MCBs - B CURVE

CURRENT RATING (A)	10 kA TP	15 kA TP
2	-	31502/2
4	-	31504/2
6	31006/2	31506/2
10	31010/2	31510/2
16	31016/2	31516/2
20	31020/2	31520/2
25	-	31525/2
32	31032/2	31532/2
40	31040/2	31540/2
50	31050/2	31550/2
63	31063/2	31563/2



31032/3

TRIPLE POLE MCBs - C CURVE

CURRENT RATING (A)	6 kA	10 kA	15 kA
2	-	31002/3	31502/3
4	-	31004/3	31504/3
6	3606C	31006/3	31506/3
10	3610C	31010/3	31510/3
16	3616C	31016/3	31516/3
20	3620C	31020/3	31520/3
25	3625C	31025/3	31525/3
32	3632C	31032/3	31532/3
40	3640C	31040/3	31540/3
50	3650C	31050/3	31550/3
63	3663C	31063/3	31563/3

Measurements:
Millimetres (mm)
unless stated
otherwise

Use the colour
code to identify the
supplying Proteus
Division:



Blue box:
Proteus Consumer



No box:
Proteus Industrial



31516/4

TRIPLE POLE MCBs - D CURVE

CURRENT RATING (A)	10 kA TP	15 kA TP
2		31502/4
4		31504/4
6	31006/4	31506/4
10	31010/4	31510/4
16	31016/4	31516/4
20	31020/4	31520/4
25	-	31525/4
32	31032/4	31532/4
40	31040/4	31540/4
50	31050/4	31550/4
63	31063/4	31563/4



41032/3

FOUR POLE MCBs - C CURVE

CURRENT RATING (A)	10 kA
6	41006/3
10	41010/3
16	41016/3
20	41020/3
32	41032/3
40	41040/3
50	41050/3
63	41063/3

4 Pole MCBs cannot be fitted in MCB boards.

Measurements:
Millimetres (mm)
unless stated
otherwise

Use the colour
code to identify the
supplying Proteus
Division:



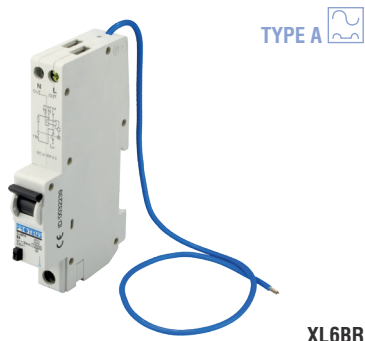
Blue box:
Proteus Consumer



No box:
Proteus Industrial

RCBOs and RCDs:

Are fitted with a
'Test-Button' facility
which will check
the detection and
mechanical tripping
function of the
device, this must be
operated regularly.



TYPE A

B CURVE

* - 4.5kA rating. ** - 6kA rating.

SINGLE MODULE RCBOs - 1 POLE & SOLID NEUTRAL

CURRENT RATING (A)	6 kA CAT. NO.	6 kA COMP. CAT. NO.	6 kA CAT. NO.	10 kA CAT. NO.	10 kA COMP. CAT. NO.
6	6MBRSPA	6MBRSPKA	66MBRSP	XL6BR	XL6BRK
10	10MBRSPA	10MBRSPKA	106MBRSP	XL10BR	XL10BRK
16	16MBRSPA	16MBRSPKA	166MBRSP	XL16BR	XL16BRK
20	20MBRSPA	20MBRSPKA	206MBRSP	XL20BR	XL20BRK
25	25MBRSPA	25MBRSPKA	-	-	XL25BRK
32	32MBRSPA	32MBRSPKA	326MBRSP	XL32BR	XL32BRK
40	40MBRSPA	40MBRSPKA*	406MBRSP	XL40BR	XL40BRK**
45	45MBRSPA	45MBRSPKA*	-	XL45BR	-



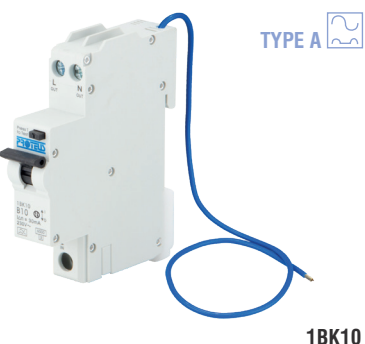
TYPE A

C CURVE

* - 4.5kA rating. ** - 6kA rating.

SINGLE MODULE RCBOs - 1 POLE & SOLID NEUTRAL

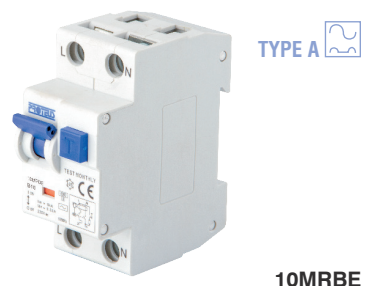
CURRENT RATING (A)	6 kA CAT. NO.	6 kA COMP. CAT. NO.	6 kA CAT. NO.	10 kA CAT. NO.	10 kA COMP. CAT. NO.
6	6MCRSPA	6MCRSPK	66MCRSP	XL6CR	XL6CRK
10	10MCRSPA	10MCRSPK	106MCRSP	XL10CR	XL10CRK
16	16MCRSPA	16MCRSPK	166MCRSP	XL16CR	XL16CRK
20	20MCRSPA	20MCRSPK	206MCRSP	XL20CR	XL20CRK
25	-	25MCRSPK	-	XL25CR	XL25CRK
32	32MCRSPA	32MCRSPK	326MCRSP	XL32CR	XL32CRK
40	40MCRSPA	40MCRSPK*	406MCRSP	XL40CR	XL40CRK**
45	45MCRSPA	45MCRSPK*	-	XL45CR	-



TYPE A

SINGLE MODULE RCBOs - DOUBLE POLE

CURRENT RATING (A)	6 kA B CURVE COMP. CAT. NO.	6 kA C CURVE COMP. CAT. NO.
6	1BK6	1CK6
10	1BK10	1CK10
16	1BK16	1CK16
20	1BK20	1CK20
32	1BK32	1CK32
40	1BK40	1CK40



TYPE A

B CURVE

MRBA range are suitable for
'cable in-cable out' applications
and with DP comb busbar.

DOUBLE MODULE RCBOs - 1POLE & SWITCHED NEUTRAL B CURVE

CURRENT RATING (A)	6 kA CAT. NO.
6	6MRBA
10	10MRBA
16	16MRBA
20	20MRBA
32	32MRBA
40	40MRBA



25/2/30T

DIRECTIONAL TYPE AC 2 POLE RCDs

TYPE AC

CURRENT RATING (A)	MAX. CABLE SIZE mm ²	30 mA SENSITIVITY CAT. NO.	100 mA SENSITIVITY CAT. NO.	300 mA SENSITIVITY CAT. NO.	500 mA SENSITIVITY CAT. NO.
25	35	25/2/30T	25/2/100T	25/2/300T	25/2/500T
40	35	40/2/30T	40/2/100T	40/2/300T	40/2/500T
63	35	63/2/30T	63/2/100T	63/2/300T	63/2/500T
80	35	80/2/30T	80/2/100T	80/2/300T	80/2/500T
100	50	100/2/30T	100/2/100T	100/2/300T	100/2/500T

Measurements:
Millimetres (mm)
unless stated
otherwise

Use the colour
code to identify the
supplying Proteus
Division:



Blue box:
Proteus Consumer



No box:
Proteus Industrial



25/2/30TA

DIRECTIONAL TYPE A 2 POLE RCDs

TYPE A

CURRENT RATING (A)	MAX. CABLE SIZE mm ²	30 mA SENSITIVITY CAT. NO.	100 mA SENSITIVITY CAT. NO.
25	35	25/2/30TA	25/2/100TA
40	35	40/2/30TA	40/2/100TA
63	35	63/2/30TA	63/2/100TA
80	35	80/2/30TA	80/2/100TA
100	50	100/2/30TA	-

RCBOs and RCDs:
Are fitted with a
'Test-Button' facility
which will check
the detection and
mechanical tripping
function of the
device, this must be
operated regularly.



25/4/30A

Supply can be connected to
top or bottom terminals.

BI-DIRECTIONAL TYPE A 4 POLE RCDs

TYPE A

CURRENT RATING (A)	MAX. CABLE SIZE mm ²	30 mA SENSITIVITY CAT. NO.	100 mA SENSITIVITY CAT. NO.	300 mA SENSITIVITY CAT. NO.
25	35	25/4/30A	-	-
40	35	40/4/30A	40/4/100A	-
63	35	63/4/30A	63/4/100A	-
80	35	80/4/30A	80/4/100A	-
100	35	100/4/30A	100/4/100A	100/4/300A

IP3X STEEL ENCLOSURE TO SUIT 4 POLE RCD

CAT. NO.	H	W	D
ENCRCD4P	385	205	116



100/2/100D

BI-DIRECTIONAL TIME DELAY RCDs

CURRENT RATING (A)	MAX. CABLE SIZE mm ²	RCD SENSITIVITY (mA)	DIRECTIONAL CAT. NO.	BI-DIRECTIONAL CAT. NO.
100 (1P+N)	50	100	100/2/100D	-
100 (3P+N)	35	100	-	100/4/100TD
100 (3P+N)	35	300	-	100/4/300TD

Type S - Time delay > 150ms.



63/2/30B

TYPE B RCDs

CURRENT RATING (A)	MAX. CABLE SIZE mm ²	RCD SENSITIVITY (mA)	2 POLE CAT. NO.	4 POLE CAT. NO.
63	35	30	63/2/30B	63/4/30B

Measurements:
Millimetres (mm)
unless stated
otherwise

WHAT IS AN ARC FAULT?

An arc-fault occurs when loose or corroded connections make intermittent contact and causes sparking or arcing between the connections. This translates into heat, which will break down the insulations of the wire and potentially trigger an electrical fire. Such arc's can range in power and vary a great deal in strength and duration. Potential causes of arc faults could include:-



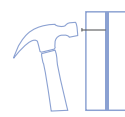
Trapped/damaged cables



Cable wear

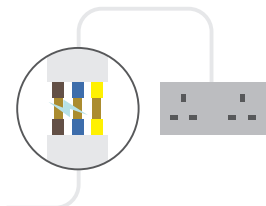


Loose terminations



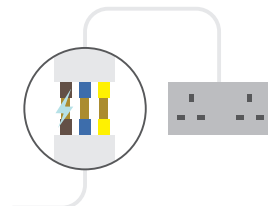
Damage caused by construction work

PARALLEL ARC FAULT



Parallel arc faults are found with damage caused to insulation which allows current to flow between conductors, usually between phase and neutral.

SERIES ARC FAULT



Series arc faults are found in loose terminal connections, damaged cords or frayed/damaged conductors. These arc's are created in one conductor only, either phase or neutral.

WHAT IS AN AFDD?

Arc Fault Detection Devices use digital electronics to analyse the waveform of an A.C. circuit to detect arc faults.

The device continuously monitors the circuit for different variations including the duration of an arc and the waveform. Once the device detects an irregular fault the device trips and disconnects the circuit, reducing the chance of it over heating and potentially causing an electrical fire.

WHAT IS AN AFR?

The Proteus AFR is an arc fault detection device combined with short circuit, overload and earth leakage detection.

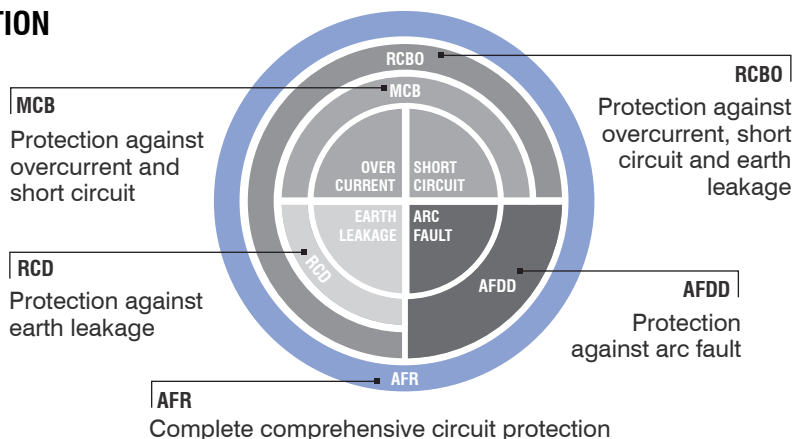
COMPLETE CIRCUIT PROTECTION



AFR10B1

Proteus offer a range of combined Arc Fault Detection (AFD) and Residual Current Circuit Breaker with Overload (RCBO) devices in B & C curve with Type A 30mA earth leakage. The single module device is designed to fit single and three phase distribution boards without the need to modify the bus bar fixing.

- 6-40 A Rated
- Series and parallel arc fault detection
- 30 mA earth leakage Type A
- B and C curve tripping characteristics
- Switched Live & Neutral
- Fits existing busbar system
- Self testing (AFDD function only)



CURRENT RATING (A)	KA RATING	B CURVE CAT. NO.	C CURVE CAT. NO.
6	6	AFR06B1	AFR06C1
10	6	AFR10B1	AFR10C1
16	6	AFR16B1	AFR16C1
20	6	AFR20B1	AFR20C1
32	6	AFR32B1	AFR32C1
40	6	AFR40B1	AFR40C1

WHAT ARE SURGES AND HOW ARE THEY PRODUCED?

Surges are short-term high voltage impulses, other names being, transients, glitches and spikes, these show themselves for a very short duration of time, typically some micro seconds.

Remember, it doesn't need a direct lightning strike on an installation to cause damaging voltage surges – a ground strike in the near vicinity is quite sufficient. Also remember there are many other sources of voltage transients, such as the starting of large motors and the switching of large capacitive and inductive loads. Common examples of internal switching events are a lift motor in a hotel or fluorescent strip lights being turned on or off.

Measurements:
Millimetres (mm)
unless stated
otherwise

WHERE IS IT IN THE REGS?

- **Chapter 44** - Protection against overvoltage's of atmospheric origin or due to switching.
- **Chapter 53** - Devices for protection against overvoltage

REG:

443.4 - Protection against transient overvoltage's **shall be** provided where the consequence caused by overvoltage...

- Results in serious injury to, or loss of, human life, or
- Public services or damage to cultural heritage, or
- Commercial or industry activity, or
- A large number of co-located individuals

For all other cases, a risk assessment according to Regulation **443.5 shall be** performed in order to determine if protection against transient overvoltage is required.

If the risk assessment is not performed, the electrical installation shall be provided with protection against transient overvoltage, except for single dwelling units where the total value of the installation and equipment therein does not justify such protection.

RATING OF SURGE PROTECTION DEVICES

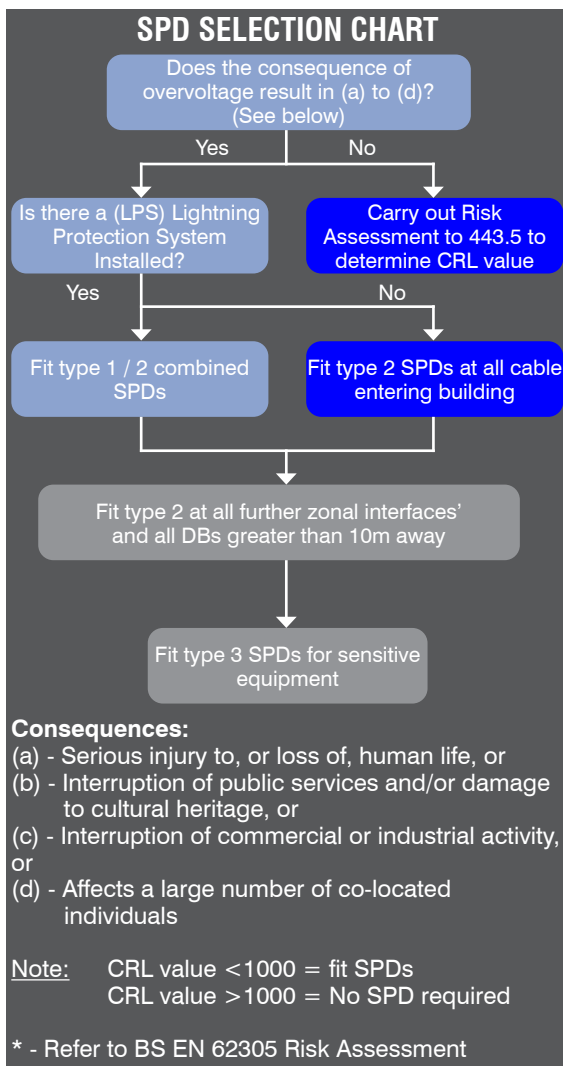
I_{imp} - Type 1 devices, Maximum Impulse Current 100kA. (25kA per module)

I_{max} - Type 2/3 devices, Maximum Discharge Current 12.5kA.

I_n - Nominal Discharge Current – the device must be able to withstand a current of this magnitude 20 times without damage.

U_p - Voltage protection level, is the voltage that will appear across the terminals of the device when it is carrying the nominal discharge current. Typical value is 1.5 kV.

U_c - Maximum Continuous Operating Voltage. This is the maximum RMS that can be applied to the terminals of the device without causing excessive leakage current to flow.



TYPES OF LIGHTNING AND SURGE ARRESTORS

- Type 1** – Surge arrestor for protection against lightning strikes.
- Type 2** – Surge arrestor for protection against man-made surges.
- Type 3** – Surge arrestor for socket outlets / strips and other sensitive control panels (i.e. intruder alarms, fire panels).

Measurements:

Millimetres (mm)
unless stated
otherwise

Use the colour
code to identify the
supplying Proteus
Division:



Blue box:

Proteus Consumer



No box:

Proteus Industrial



THREE PHASE TYPE 1 + 2 SPD SPD/T12/4P

SPD TYPE	NO. of POLES	THREE PHASE CAT. NO.
1 + 2	4	SPD/T12/4P
1 + 2	4	SPD/T12/4PA*

* - Fitted with an aux contact for remote signaling



THREE PHASE TYPE 1 + 2 SPD

SPD TYPE	NO. of POLES	THREE PHASE CAT. NO.
1 + 2	4	SPD/T12/100KA/4P



SINGLE PHASE TYPE 1 + 2 SPD

SPD TYPE	NO. of POLES	SINGLE PHASE CAT. NO.
1 + 2	2	SPD/T12

		SPD/T12/4P	SPD/T12/100KA/4P	SPD/T12
Designation according to EN 61643-11		Type 1+2	Type 1+2	Type 1+2
Nominal voltage AC 50-60 Hz	Un [V]	230/400	230/400	230/-
Maximum continuous operating voltage (L-N)	Uc (L-N) [V]	275	275	275
Lightning impulse current (10/350) (L-N)	Iimp (L-N) [kA]	12,5	25	12,5
Lightning impulse current (10/350) (N-PE)	Iimp (N-PE) [kA]	50	100	25
Maximum discharge current (8/20) (L-N)	I _{max} (L-N) [kA]	50	100	50
Maximum discharge current (8/20) (N-PE)	I _{max} (N-PE) [kA]	50	100	50
Nominal discharge current (8/20) (L-N)	I _n (L-N) [kA]	20	25	20
Nominal discharge current (8/20) (N-PE)	I _n (N-PE) [kA]	50	50	25
Voltage protection level (L-N) at I _n	Up (L-N) [kV]	≤1,3	1,5	≤1,3
Maximum back-up fuse	A [gL]	250	315	200
Short circuit withstand	I _{cc} [kA]	25	25	25



SPD/T2/4PE

SPD'S IN INSULATED IP RATED ENCLOSURES

SPD TYPE	IP RATING	CAT. NO.	H	W	D
1 + 2	IP65	SPD/T12/4PE	155	115	95
1 + 2	IP65	SPD/T12/100KA/4PE	190	250	120
2	IP65	SPD/T2/4PE	155	115	95
1 + 2	IP65	SPD/T12E	150	100	100
2	IP65	SPD/T2E	150	100	100
2 + 3	IP65	SPD/T23E	150	100	100



THREE PHASE TYPE 2 SPD

SPD/T2/4P

SPD TYPE	NO. of POLES	THREE PHASE CAT. NO.
2	4	SPD/T2/4P
2	4	SPD/T2/4PA*

* - Fitted with an aux contact for remote signaling



SINGLE PHASE TYPE 2 SPD

SPD TYPE	NO. of POLES	SINGLE PHASE CAT. NO.
2	2	SPD/T2



SINGLE PHASE TYPE 2 + 3 SPD

SPD TYPE	NO. of POLES	SINGLE PHASE CAT. NO.
2 + 3	2	SPD/T23

Measurements:
Millimetres (mm)
unless stated
otherwise

Use the colour
code to identify the
supplying Proteus
Division:



Blue box:
Proteus Consumer



No box:
Proteus Industrial

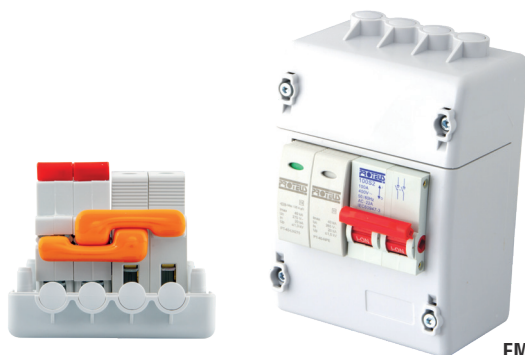
		SPD/T2/4P	SPD/T2	SPD/T23
Designation according to EN 61643-11		Type 2	Type 2	Type 2+3
Nominal voltage AC 50-60 Hz	Un [V]	230/400	230/-	230/-
Maximum continuous operating voltage (L-N)	Uc (L-N) [V]	275	275	275
Maximum discharge current (8/20) (L-N)	Imax (L-N) [kA]	40	40	15
Nominal discharge current (8/20) (L-N)	In (L-N) [kA]	20	20	5
Voltage protection level (L-N) at In	Up (L-N) [kV]	≤1,3	≤1,3	≤1,2
Voltage protection level (N-PE) at In	Up (N-PE) [kV]	≤1,5	≤1,5	≤1,5
Maximum back-up fuse	A [gL]	250	125	63
Short circuit withstand	Icc [kA]	25	25	10



SPD/T12/4PES

SPD'S IN STEEL ENCLOSURES

SPD TYPE	IP RATING	CAT. NO.	H	W	D
2	IP3X	SPD/T2/4PES	385	205	116
1+2	IP3X	SPD/T12/4PES	385	205	116
1 + 2	IP3X	SPD/T12/100KA/4PES	385	205	116



EMIST2

SURGE PROTECTED ELECTRICITY METER ISOLATOR SWITCHES

Pre-made insulated Bus bar Connections

DESCRIPTION	CAT. NO.	H	W	D	TERMINAL CAPACITY (UP TO)
100A isolator with Type 2 surge protection	EMIST2	145	95	82	50 mm ²
100A isolator with Type 1+2 surge protection	EMIST12	145	95	82	50 mm ²



PROTEUS DISTRIBUTION UNITS FOR ELECTRIC CAR CHARGERS

Proteus offer a large range of custom designed single & three phase distribution units for EV chargers. Ensure your customer's exact requirements are met with a completely bespoke solution.

DOMESTIC, COMMERCIAL, INDUSTRIAL OR PUBLIC

Proteus can offer EV charging switchgear solutions for a variety of installations from charging at home, the workplace, public access and commercial applications.

COMPATIBILITY WITH DIFFERENT CHARGERS

Whether the installation is for electric car charger for home or work or if it requires a slow unit, fast charger or rapid charger, Proteus can offer a standard or bespoke solution to supply and protect your electric car charging stations.



STANDARD DISTRIBUTION UNITS FOR EV CHARGERS GENERAL CONSTRUCTION TO BSEN 61439-1 & 2

Proteus Switchgear offer a wide range of standard products which suit a variety of EV installations. Not only do they distribute power, offer short circuit, overcurrent and earth leakage protection, but they are also off-the-shelf items which makes them a quick and affordable option.

They are a complete solution which comes fully assembled and with all the required devices already fitted.

We offer a 1 way unit, all the way up to a 12 way unit and many different configurations in-between. Outgoing ways are described as the kW rating of the required chargers so you can easily choose the switchgear to match your EV charging requirements.



BESPOKE DISTRIBUTION UNITS FOR EV CHARGERS GENERAL CONSTRUCTION TO BSEN 61439-1 & 2

Proteus Switchgear also offer pre-built bespoke solutions including MCCBs, MCBs, RCDs, RCBOs in IP3X steel enclosures or steel/GRP IP65 Enclosures to suit various applications.

Not all EV charging installations are exactly the same, so specialist solutions are often required. Proteus Switchgear are able to design and build bespoke configurations to distribute power and offer protection to all of your required EV charging points.

With state-of-the-art manufacturing facilities and dedicated sales, technical and production staff, we specialise in offering solutions to problems that often cannot be addressed by standard product offerings.

Ensure your customer's exact requirements are met with a completely bespoke solution.



ON-SITE SURVEY

Our team are happy to visit your site to establish your project requirements.

TESTING & COMPLIANCE

All products tested to relevant British & European Standards.

DESIGNED TO YOUR SPECIFICATION

Proteus utilise the latest drawing software and provide board layout drawings at both quotation and construction stages.

BE INVOLVED

You're welcome to visit the factory to see your board being built and discuss build requirements.

PROTEUS ASSIST THE FAST CHARGER ROLL-OUT

Proteus Industrial Switchgear are working with major names in electric vehicle (EV) charging. They design and build bespoke and standard switchgear solutions for protecting and distributing power to EV chargers.

A recent project saw a roll-out of 150kW chargers across 6,500 public charging points throughout the UK. The roll-out will help future-proof the UK's charging facilities, as currently very few EVs are capable of charging at 150kW.

To provide suitable power distribution, control and circuit protection Proteus Industrial designed and manufactured a range of products to cover the various installation types.

The main panels for the 150kW Ultra Chargers include 1250A or 1600A incomers supplying two or four 315A MCCBs. All are fitted with type A earth leakage and surge protection with a further sub-distribution board providing lighting and maintenance outlets.

As a UK manufacturer Proteus Switchgear offer such customised solutions with quality products which are fully compliant with BS 61439 parts 1 & 2.



Measurements:

Millimetres (mm)
unless stated
otherwise

Use the colour
code to identify the
supplying Proteus
Division:



Blue box:
Proteus Consumer



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Proteus Industrial



AEV40PME

6kA EV DISTRIBUTION BOARDS c/w PME FAULT DETECTION

For 1 Single Pole EV Charger Circuit

OUTGOING WAYS	KW RATING	PROTECTION DEVICE	CAT. NO.	H	W	D
1	7.2 kW	RCBO 40 A	AEV40PME	225	225	119
1	7.2 kW	RCD 63 A / MCB 40 A	AEVB40PME	256	309	119



AVE40PMES

16kA EV DISTRIBUTION BOARDS c/w PME FAULT DETECTION

For 1 Single Pole EV Charger Circuit

OUTGOING WAYS	KW RATING	PROTECTION DEVICE	CAT. NO.	H	W	D
1	7.2 kW	RCBO 40 A	AEV40PMES	225	225	119
1	7.2 kW	RCD 63 A / MCB 40 A	AEVB40PMES	256	309	119



AVE8PME40

ISOLATOR CONTROLLED EV CONSUMER UNITS c/w PME FAULT DETECTION

For 1 Single Pole EV Charger Circuit

OUTGOING WAYS	KW RATING	PROTECTION DEVICE	CAT. NO.	H	W	D
8	7.2 kW	RCBO 40 A	AEV8PME40	256	417	119
12	7.2 kW	RCBO 40 A	AEV12PME40	256	489	119



AVE55PME40

DUAL RCD EV CONSUMER UNITS c/w PME FAULT DETECTION

For 1 Single Pole EV Charger Circuit

OUTGOING WAYS	KW RATING	PROTECTION DEVICE	CAT. NO.	H	W	D
10	7.2 kW	RCBO 40 A	AEV55PME40	256	489	119
16	7.2 kW	RCBO 40 A	AEV88PME40	256	597	119



AEVB40PMEIP

IP65 6kA EV DISTRIBUTION BOARDS c/w PME FAULT DETECTION

For 1 Single Pole EV Charger Circuit

OUTGOING WAYS	kW RATING	PROTECTION DEVICE	CAT. NO.	H	W	D
1	7.2 kW	RCBO 40 A	AEV40PMEIP	201	202	120
1	7.2 kW	RCD 63 A / MCB 40 A	AEVB40PMEIP	259	319	144

Measurements:
Millimetres (mm)
unless stated
otherwise

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AEV40PMESIP

IP65 16kA EV DISTRIBUTION BOARDS c/w PME FAULT DETECTION

For 1 Single Pole EV Charger Circuit

OUTGOING WAYS	kW RATING	PROTECTION DEVICE	CAT. NO.	H	W	D
1	7.2 kW	RCBO 40 A	AEV40PMESIP	201	202	120
1	7.2 kW	RCD 63 A / MCB 40 A	AEVB40PMESIP	259	319	144



TP 100A 4P ISOLATOR INCOMER

Suitable For 3/6 x 7.2 kW SP EV Chargers

Supplied with:

- 100A 4 Pole isolator
- Type A 40A 30 mA C Curve SP RCBO

PEV230

SP RCBOs	CAT. NO.	H	W	D
3 x 40 A	PEV230	269	326	110
6 x 40 A	PEV260	269	326	110



PEV260RCD

100A TP+N POPULATED DISTRIBUTION BOARD - MAINS INCOMER

Suitable For: 3/6 x 7.2 kW SP EV Chargers

Dimensions: 538 mm(H), 326 mm(W) & 110 mm(D)

Supplied with:

- 100A 4 Pole isolator
- 40A C Curve 10kA SP MCBs
- Type A 40A 30 mA 2 Pole RCDs

SP MCBs	2P RCDs	CAT. NO.
3 x 40 A	3 x 40A	PEV230RCD
6 x 40 A	6 x 40 A	PEV260RCD

Measurements:

Millimetres (mm)
unless stated
otherwise

Compliant:

BS EN 61439-3

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100A TP+N POPULATED DISTRIBUTION BOARD - MAINS INCOMER

Suitable For: 3 x 7.2 kW SP & 1 x 22kW TP
EV Chargers
Dimensions: 538 mm(H), 326 mm(W) & 110 mm(D)
Supplied with:

- 100A 4 Pole isolator
- Type A 40A 30 mA C Curve SP RCBOs
- 40A C Curve 10kA TP MCBs
- Type A 40A 30 mA 4 Pole RCDs

SP RCBOs	3P MCBs	4P RCDs	CAT. NO.
3 x 40A	1 x 40A	1 x 40A	PEV231



100A TP+N POPULATED DISTRIBUTION BOARD - MAINS INCOMER

Suitable For: 3 x 7.2 kW SP & 1 x 22kW TP
EV Chargers
Dimensions: 538 mm(H), 326 mm(W) & 110 mm(D)
Supplied with:

- 100A 4 Pole isolator
- 40A C Curve 10kA SP MCBs
- 40A C Curve 10kA TP MCBs
- Type A 40A 30 mA 2 Pole RCDs
- Type A 40A 30 mA 4 Pole RCDs

SP MCBs	3P MCBs	2P RCDs	4P RCDs	CAT. NO.
3 x 40A	1 x 40A	3 x 40A	1 x 40A	PEV231RCD



PEV1-11-IRA

TP+N POPULATED DISTRIBUTION BOARD - MAINS INCOMER

Suitable For: 11/22kW TP EV Chargers
Dimensions: 385mm(H), 205 mm(W) & 112 mm(D)
Supplied with:

- 4 Pole isolator
- 30 mA 4 Pole RCDs

4P ISOLATOR	4P RCDs	RCD TYPE	CAT. NO.
25A	25A	A	PEV1-11-IRA
25A	63A	B	PEV1-11-IRB
40A	40A	A	PEV1-22-IRA
40A	63A	B	PEV1-22-IRB



PEV1-11-MRA

TP+N POPULATED DISTRIBUTION BOARD - MCB INCOMER

Suitable For: 11/22kW TP EV Chargers
Dimensions: 385mm(H), 205 mm(W) & 112 mm(D)
Supplied with:

- C Curve 10kA 4 Pole MCB
- 30 mA 4 Pole RCD

4P RCDs	RCD TYPE	4P MCBs	CAT. NO.
25A	A	20A	PEV1-11-MRA
63A	B	20A	PEV1-11-MRB
40A	A	40A	PEV1-22-MRA
63A	B	40A	PEV1-22-MRB



PEV4S12532

125A TP+N POPULATED DISTRIBUTION BOARD - MAINS INCOMER

Suitable For: 3/6 x 7.2 kW SP & 2 x 22kW TP EV Chargers
Dimensions: 655 mm(H), 410 mm(W) & 110 mm(D)

Supplied with:

- 125A 4 Pole isolator
- Type A 40A 30 mA C Curve SP RCBOs
- 40A C Curve 10kA TP MCBs
- Type A 40A 30 mA 4 Pole RCDs

SP RCBOs	3P MCBS	4P RCDS	CAT. NO.
3 x 40A	2 x 40A	2 x 40A	PEV4S12532
6 x 40A	2 x 40A	2 x 40A	PEV4S12562



PEV4S12532RCD

125A TP+N POPULATED DISTRIBUTION BOARD - MAINS INCOMER

Suitable For: 3/6 x 7.2 kW SP & 2 x 22kW TP EV Chargers
Dimensions: 885 mm(H), 410 mm(W) & 110 mm(D)

Supplied with:

- 125A 4 Pole isolator
- Type A 40A 30 mA C Curve SP RCBOs
- 40A C Curve 10kA TP MCBs
- Type A 40A 30 mA 2 Pole RCDs
- Type A 40A 30 mA 4 Pole RCDs

SP MCBS	3P MCBS	2P RCDS	4P RCDS	CAT. NO.
3 x 40A	2 x 40A	3 x 40A	2 x 40A	PEV4S12532RCD
6 x 40A	2 x 40A	6 x 40A	2 x 40A	PEV4S12562RCD

Measurements:
Millimetres (mm)
unless stated
otherwise

Compliant:
BS EN 61439-3

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200A TP+N POPULATED DISTRIBUTION BOARD - MAINS INCOMER

Suitable For: 9 x 7.2 kW SP & 3 x 22kW TP EV Chargers
Dimensions: 1,045 mm(H), 410 mm(W) & 110 mm(D)

Supplied with:

- 200A 4 Pole isolator
- Type A 40A 30 mA C Curve SP RCBOs
- 40A C Curve 10kA TP MCBs
- Type A 40A 30 mA 4 Pole RCDs

SP RCBOs	3P MCBS	4P RCDS	CAT. NO.
9 x 40A	3 x 40A	3 x 40A	PEV6S293



200A TP+N POPULATED DISTRIBUTION BOARD - MAINS INCOMER

Suitable For: 9 x 7.2 kW SP & 3 x 22kW TP EV Chargers
Dimensions: 1,380 mm(H), 410 mm(W) & 110 mm(D)

Supplied with:

- 200A 4 Pole isolator
- 40A C Curve 10kA SP MCBs
- 40A C Curve 10kA TP MCBs
- Type A 40A 30 mA 2 Pole RCDs
- Type A 40A 30 mA 4 Pole RCDs

SP MCBS	3P MCBS	2P RCDS	4P RCDS	CAT. NO.
9 x 40A	3 x 40A	9 x 40A	3 x 40A	PEV6S293RCD