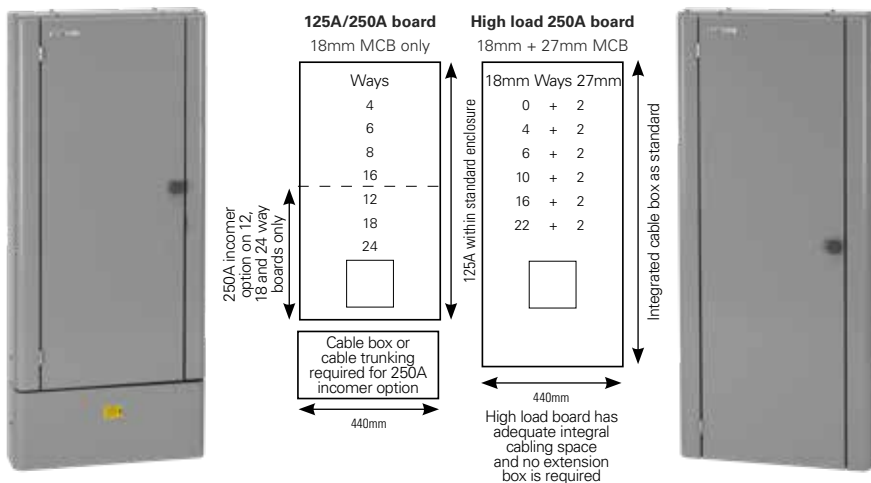


**Memshield 3 high load distribution boards.
Save cost.
Save space.**

A high load distribution board with an ability to supply and protect sub loads up to 125A
Electrical distribution solutions developed to respond to the needs of modern commercial building applications

Type B, TPN 250A distribution board solutions



Did you know that our Memshield 3 high load distribution boards are ideal for Plant room applications where there is a demand for higher power, for example, air source heat pumps or EV infrastructure

A 250A TPN range of MCB boards that is able to protect sub loads up to 125A; it is based principally around standard 18mm MCBs and RCBOs, this range has provision for two TP 27mm MCBs, up to 125A. Available in sizes 2, 6, 8, 12, 18 and 24 TP ways, of which two ways are dedicated to the 27mm MCBs. 27mm MCBs are available SP or TP with ratings from 20A–125A.

Savings

- **Cost** - larger outgoing capability where required for sub-circuits means the use of one small board instead of a panelboard to serve two sub-boards is possible.
- **Space** - it's smaller footprint takes up less space

Flexible solution

- **Retro-fit** - can be fitted to an existing system when supplies need upgrade
- **Metering** - a choice of metering solutions available as standard. Developed to provide solutions to aid compliance with Part L2 of Building Regulations
- **Cable Trunking** - a new cable trunking interface kit is available to provide additional mechanical protection of incoming cables.

EATON

Powering Business Worldwide

www.eaton.com/Memshield3highloadboard

Type B TPN High Load distribution boards

Removable gland plates are provided top/bottom for ease of installation

Removable front door to aid accessibility to devices

Covers fit within enclosure dimensions allowing adjacent mounting



Modern, curved edges enhance appearance of board

Choice of SP & TP 18mm dual rated MCBs 10/15kA to IEC 60898 and IEC 60947-2 from 1A–63A

Two TP 27mm MCB ways, rated up to 125A

Secondary cover, slides over two location screws at bottom of board for easier fastening

EBM62H

250A TPN, type B high load distribution board

- These boards include 2 TPN outgoing ways for 27mm MCB (upto 125A)
- Adequate integral cabling space means that no extension box is required.
- Enclosure degree of protection IP4X (wall-mounted)
- Fitted with door lock as standard.



| Description | Rating (A) | Total no. of 18mm TP outgoing ways (63A max) | Total no. of 27mm TP outgoing ways (125A max) | Total no. of outgoing ways | Eaton list number |
|---------------------------------------|------------|--|---|----------------------------|-------------------|
| 2 way TPN, type B distribution board | 200 | 0 | 2 | 2 | EBM22H |
| 6 way TPN, type B distribution board | 250 | 4 | 2 | 6 | EBM62H |
| 8 way TPN, type B distribution board | 250 | 6 | 2 | 8 | EBM82H |
| 12 way TPN, type B distribution board | 250 | 10 | 2 | 12 | EBM122H |
| 18 way TPN, type B distribution board | 250 | 16 | 2 | 18 | EBM182H |
| 24 way TPN, type B distribution board | 250 | 22 | 2 | 24 | EBM242H |

Type B TPN 250A High Load distribution boards

Developed to respond to the needs of modern commercial building applications, a new 250A TPN range of MCB boards delivers increased versatility by having the ability to supply and protect sub loads up to 125A. Based principally around standard 18mm MCBs and RCBOs, this range has provision for two TP 27mm MCBs, up to 125A. Available in sizes 2, 6, 8, 12, 18 and 24 TP ways, of which two ways are dedicated to the 27mm MCBs. 27mm MCBs are available SP or TP with ratings from 20A–125A.

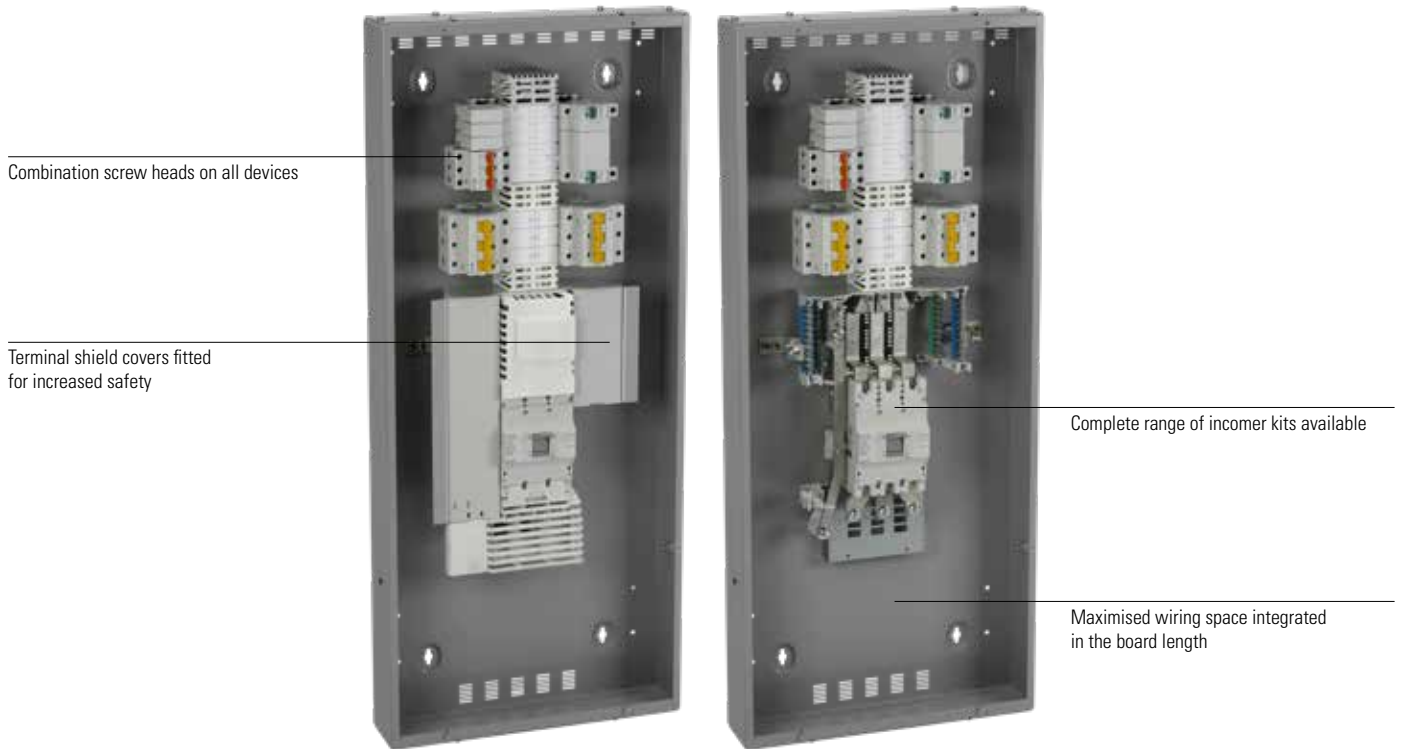
Metering solutions type B – meter pack assemblies

Eaton's Memshield 3 meter packs provide simple integration with matched aesthetics. Split metering for separate small power and lighting has been added to the range to meet the needs of the L2 Regulations introduced in England and Wales in 2006. The meters provide a pulsed output for kWh and display other useful parameters, including line voltage and current.

Cable trunking

Where used with 250A sized incomers, an extension box or the provision of suitable sized cable trunking is required to accommodate incoming cabling. A new cable trunking interface kit is available to provide additional mechanical protection of incoming cables. Request Type B TPN High Load distribution boards Combination screw heads on all devices-Terminal shield covers fitted for increased safety Complete range of incomer kits available Maximised wiring space integrated in the board length Eaton list number EBMTK.





Incoming devices – 250A TPN board and 18/24 way 125A board

These incomer options can be used with the 250A board or with the 18 or 24 way variant of the 125A board to provide a greater choice of solutions at 250A. The most popular choice will be the 250A TPN switch disconnecter incomer option, but other choices include MCCB incomers from 160A to 250A and a contactor controlled incomer pack. There is also a direct connection option available for applications that do not require local isolation.

Outgoing devices

For Type B distribution boards, there is a choice of single pole or triple pole MCBs plus SP RCBOs. MCBs are available in current ratings from 1A-63A, with trip types B, C and D, 10kA to IEC 60898 and 15kA to IEC 60947-2. RCBOs to IEC 61009 10kA are also available in a choice of trip sensitivity options from 10mA-100mA.

For the 250A high load board, provision is given to accommodate 6 x SP or 2 x TP 27mm MCBs rated from 80–125A IEC 60947-2.

EBMMB250



250A incomer options for type B distribution boards

- Incoming devices supplied separate to distribution board.
- Where used with **EBM122** or **EBM242**, a separate cable extension box or suitable cable trunking is required
- Maximum Cable capacity 120mm²

| Description | Rating (A) | Pole configuration | Eaton list number |
|---|------------|--------------------|-------------------|
| Switch-disconnector | 250 | TP | EBMS2503 |
| Direct connection (lugs connector) | 250 | TP | EBMBT2503 |
| MCCB incomer kit (includes MCCB) | 250 | TP | EBMMB250 |
| MCCB incomer kit (includes MCCB) | 200 | TP | EBMMB200 |
| MCCB incomer kit (includes MCCB) | 160 | TP | EBMMB160 |
| Switch disconnector feeding 225A TP AC1 contactor, housed in extension box | 250 | TP | EBMCC2503 |
| Single phase conversion kit for 250A rated board only (requires EBMS2503 to be ordered separately) | | | EBMS25 |

EMCS1100



Outgoing devices (for 250A high load distribution board only) – MCBs, single pole

| Rated current In (A) | Width (mm) | Short circuit rating (IEC/EN 60947-2) | Eaton list number Trip type B | Trip type C | Trip type D |
|-------------------------|---------------|--|----------------------------------|-----------------|-----------------|
| 20 | 27 | 25kA | EMBS120 | EMCS120 | EMDS120 |
| 32 | 27 | 25kA | EMBS132 | EMCS132 | EMDS132 |
| 40 | 27 | 25kA | EMBS140 | EMCS140 | EMDS140 |
| 50 | 27 | 25kA | EMBS150 | EMCS150 | EMDS150 |
| 63 | 27 | 25kA | EMBS163 | EMCS163 | EMDS163 |
| 80 | 27 | 20kA | EMBS180 | EMCS180 | EMDS180 |
| 100 | 27 | 20kA | EMBS1100 | EMCS1100 | EMDS1100 |
| 125 | 27 | 15kA | EMBS1125 | EMCS1125 | – |

Outgoing devices (for 250A high load distribution board only) – MCBs, three pole

EMCS3125



| Rated current In (A) | Width (mm) | Short circuit rating (IEC/EN 60947-2) | Eaton list number Trip type B | Trip type C | Trip type D |
|-------------------------|---------------|--|----------------------------------|-----------------|-----------------|
| 20 | 81 | 25kA | EMBS320 | EMCS320 | EMDS320 |
| 32 | 81 | 25kA | EMBS332 | EMCS332 | EMDS332 |
| 40 | 81 | 25kA | EMBS340 | EMCS340 | EMDS340 |
| 50 | 81 | 25kA | EMBS350 | EMCS350 | EMDS350 |
| 63 | 81 | 25kA | EMBS363 | EMCS363 | EMDS363 |
| 80 | 81 | 20kA | EMBS380 | EMCS380 | EMDS380 |
| 100 | 81 | 20kA | EMBS3100 | EMCS3100 | EMDS3100 |
| 125 | 81 | 15kA | EMBS3125 | EMCS3125 | – |



Memshield 3 MCB
Distribution Boards | Eaton

Eaton Electric Limited
252 Bath Road
Slough
Berkshire SL1 4DX
United Kingdom
Customer Support Centre
Tel: +44 (0)8700 545 333
Fax: +44 (0)8700 540 333
email: ukcommorders@eaton.com

© 2022 Eaton
All Rights Reserved
Publication No. SA01400012U
August 2022

Changes to the products, to the information contained in this document, and to prices are reserved; as are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton Internet pages and Eaton order confirmations.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.

