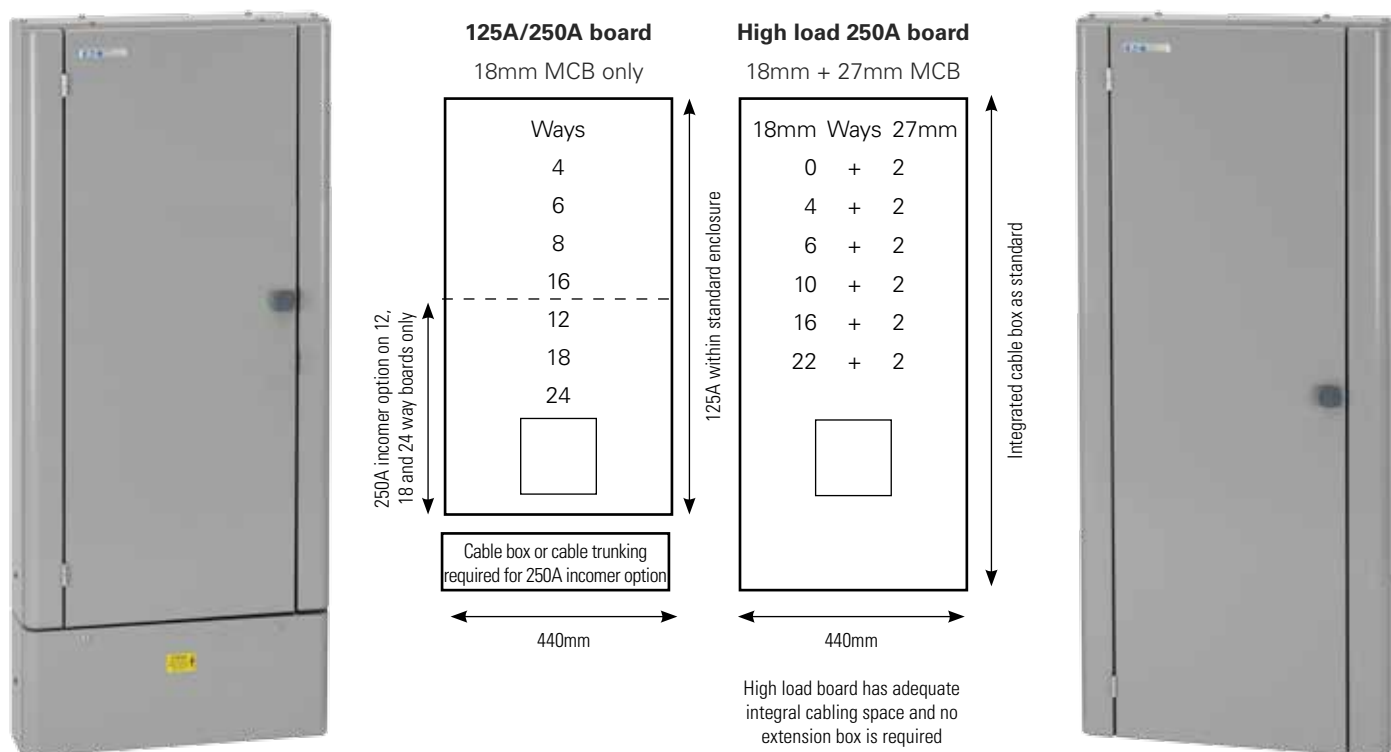


1.3

Product overview

Type B, TPN 250A distribution boards

Type B, TPN 250A distribution board solutions



Type B TPN 250A 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

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.

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 a 4-pole TPN switch disconnecter, a choice of 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 and TP 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 a number of 27mm MCBs available in SP or TP sizes from 20A–125A to IEC 60947-2.





200A TPN type B distribution board, with integrated split meter for power/lighting

- TPN distribution board with 'smart' meter for power and lighting loads.
- Unique meter design calculates net values for each busbar section and total board load.
- Meter has both Pulsed and Modbus outputs as standard.
- Embedded vt technology and RJ 11 connections at meter minimises visible wiring.
- Supplied complete with factory fitted 200A Switch Disconnector incomer switch.
- Suitable for TPN and SPN applications as supplied (shorting link included).
- Increased earthing options supplied as standard.



The feature packed Eaton meter packs and boards

To meet the needs of part L2 of the Building Regulations introduced in England and Wales in 2006, Eaton's Memshield 3 meter packs provide simple integration with matched aesthetics. The EBMMPCT250 employs a multi-function, DIN rail mounted meter to measure electrical parameters on LV supplies to TPN distribution boards. It can also be used to meter single-phase loads. The unit is supplied complete with CTs and wiring terminals. This version is suitable for 100A–250A applications and as well as a pulsed output for kWh, the meter can be used to monitor other parameters, including line voltage and current. Electrical connection to the associated distribution board does not occupy any of the outgoing circuits. Modbus and MID certified meter versions are also available – see page 36.

The **EBMMPDC120** is supplied as a 120A direct connection solution, not requiring CTs. Cabling is simple and the meter provides a pulsed output for kWh. The meter is an MID certified unit, providing clear kWh information.

Double meter pack for two standard TPN distribution boards facilitate separate monitoring of "small power" and "lighting" from one main supply.

For single phase EAM boards, a 65A meter pack provides simple integration. (Amps, kW, kWh, kVar and kVarh pulsed output, MID compliant. See page 32 for single phase EAM boards with factory fitted meters, including split power and lighting boards.)



Metering solutions – type A metered boards

- Type A SPN boards with integrated meter.
- Split load versions utilise a two channel meter, feeding two independent busbars and groups of MCB/RCBOs.
- Split load versions provide independent monitoring of "Power" and "Lighting" loads and total load.
- Aids compliance with Part L2 of the Building Regulations (England & Wales).
- See page 127 for dimensions.

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. Modbus versions are also available and provide remote access to additional electrical parameters. For details refer to page 36. For dimensions refer to page 127.