



Powering Business Worldwide

## MEMSHIELD 3 TYPE B TPN HIGH LOAD DISTRIBUTION BOARD

Instruction leaflet LT1194 (01/21)

### IMPORTANT NOTES

1. This product should be installed, commissioned and maintained by or under the supervision of a competent electrician in accordance with current electrical engineering Codes of Practice, Regulations for the Electrical equipment of Buildings (BS7671), CDM2007 - Construction (Design and Management) Regulations 2007, HSG150 - Health and Safety in Construction, Statutory requirements and any Specific instruction issued by the Company.
2. After completing the installation and testing of this product it is essential that this leaflet is drawn to the attention of the person responsible for its future operation and maintenance, and is at all times available for ready reference.
3. These notes assume throughout that the product is disconnected from the supply. It is essential that this is done before any work is carried out.

Drawn as EBM82H

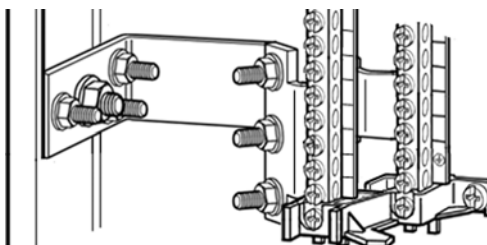
**These Distribution Boards are designed only for use with MCB's and RCBO's as listed in the current Memshield 3 catalogue. Failure to comply will result in invalid warranty and certification.**

#### **CAUTION**

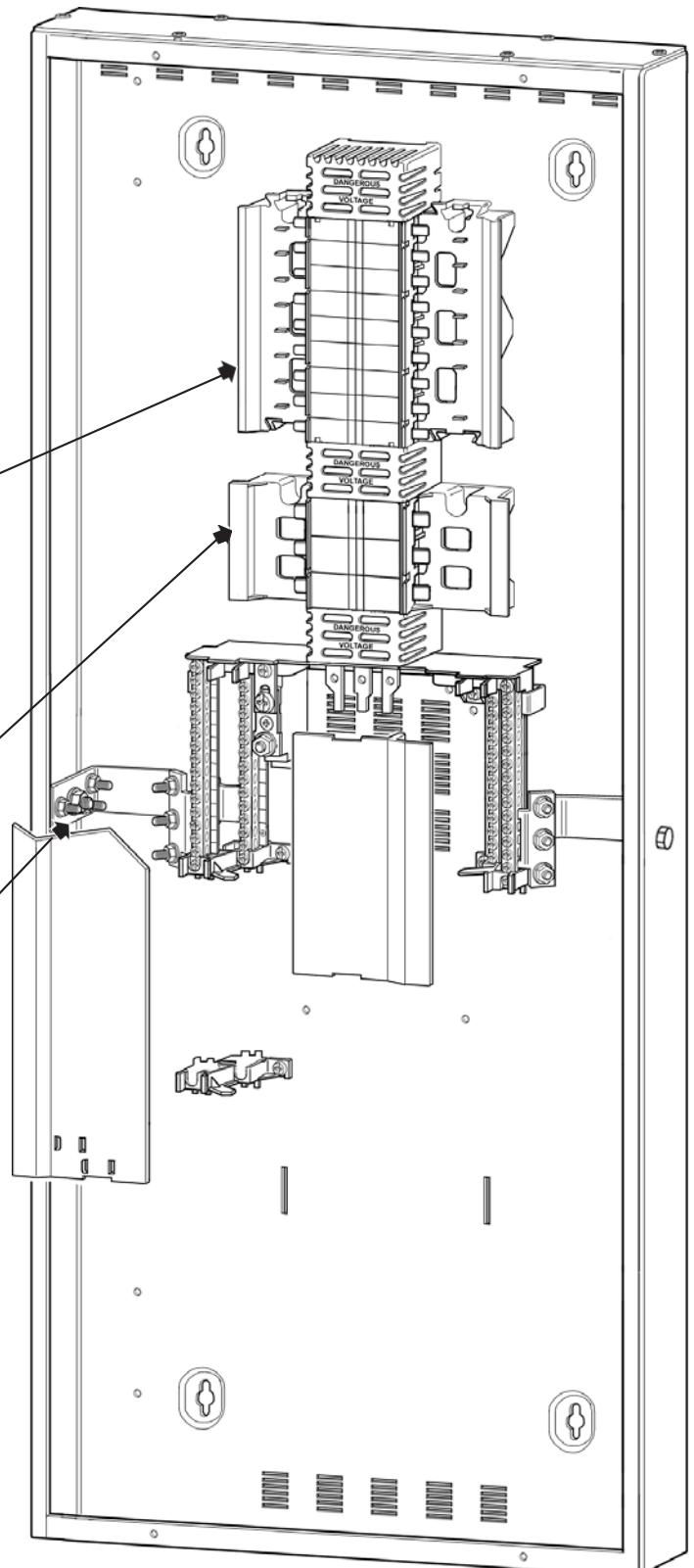
**Do not fit SP & SN, or 4 pole MCB's in TP type B board**

Provision to fit 18mm pitch mcb's

Provision to fit maximum 2 off 27mm pitch mcb's

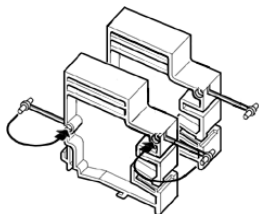


Dedicated 27mm pitch mcb earth and neutral positions



## FITTING AN MCB/RCBO

Before fitting to busbar ensure MCB terminal is fully open



All unused ways must be fitted with a blanking module, assembled and fitted in gangs of 3.

6 Shields supplied (3 per mcb) to be fitted load side

Locate and tighten terminal screws to 2.4Nm

18mm pitch mcb

Locate and tighten terminal screws to 3.0Nm

27mm pitch mcb

Earth terminal screws  
M6 Tighten to 6.8Nm  
M8 Tighten to 15Nm

M6 Neutral terminal screws  
Tighten to 6.8Nm

When fitting an RCBO, trim RCBO 'N' cable to length and connect to 'N' busbar terminal.  
Connect load live/neutral cable direct to RCBO.

**IMPORTANT:**  
Orientate MCB clip next to busbar stack

Busbar assembly can be removed for ease of installation

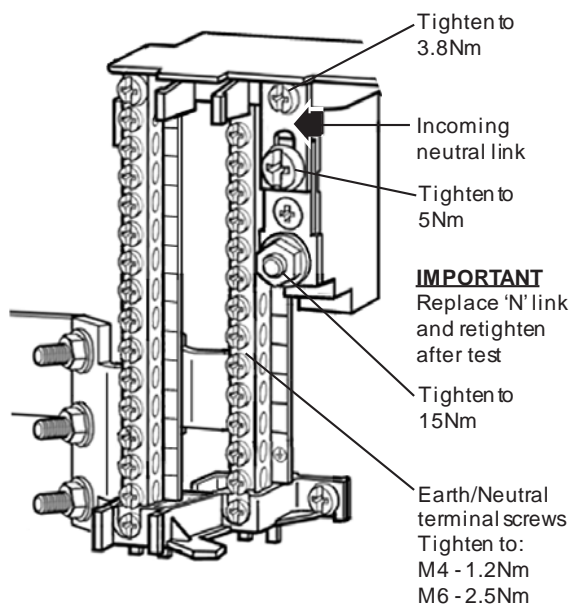
EMBP

Clip fit

EMBP

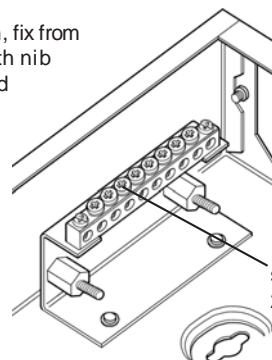
Clip fit

## NEUTRAL LINK DISCONNECTION

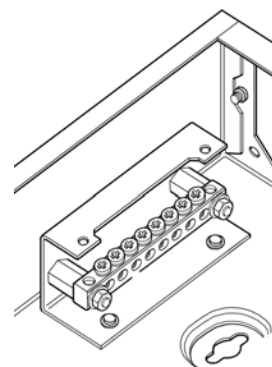


## FITTING EBMNE8

Additional earth, fix from rear with x2 earth nib screws provided

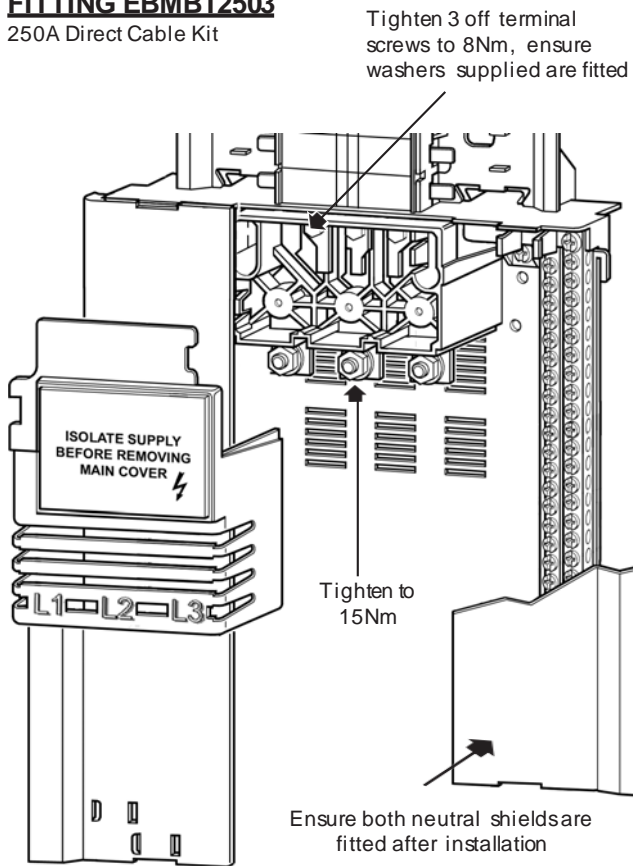


Convert to clean earth



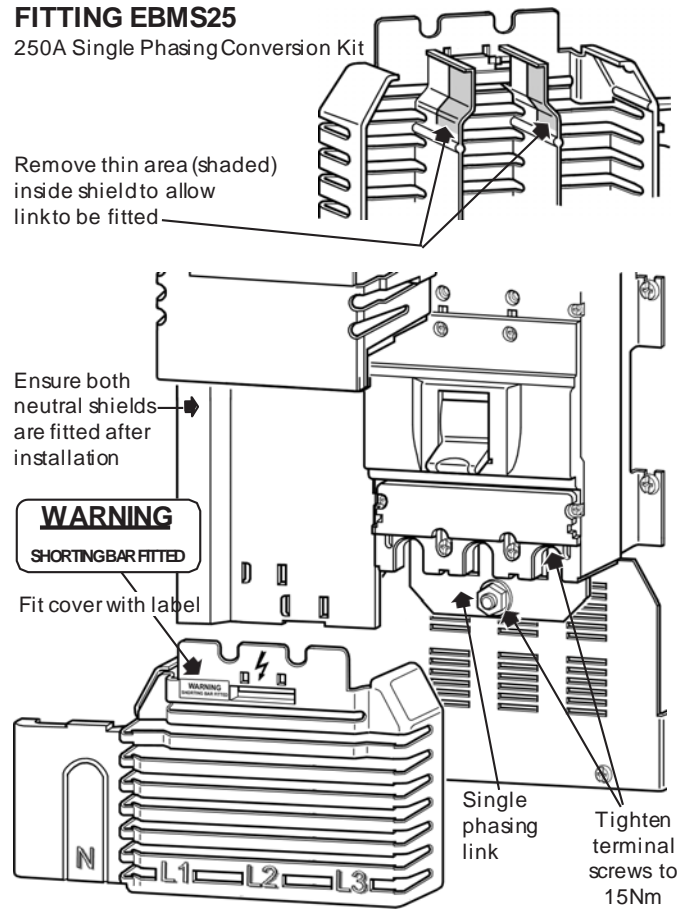
### **FITTING EBMBT2503**

250A Direct Cable Kit



### **FITTING EBMS25**

250A Single Phasing Conversion Kit



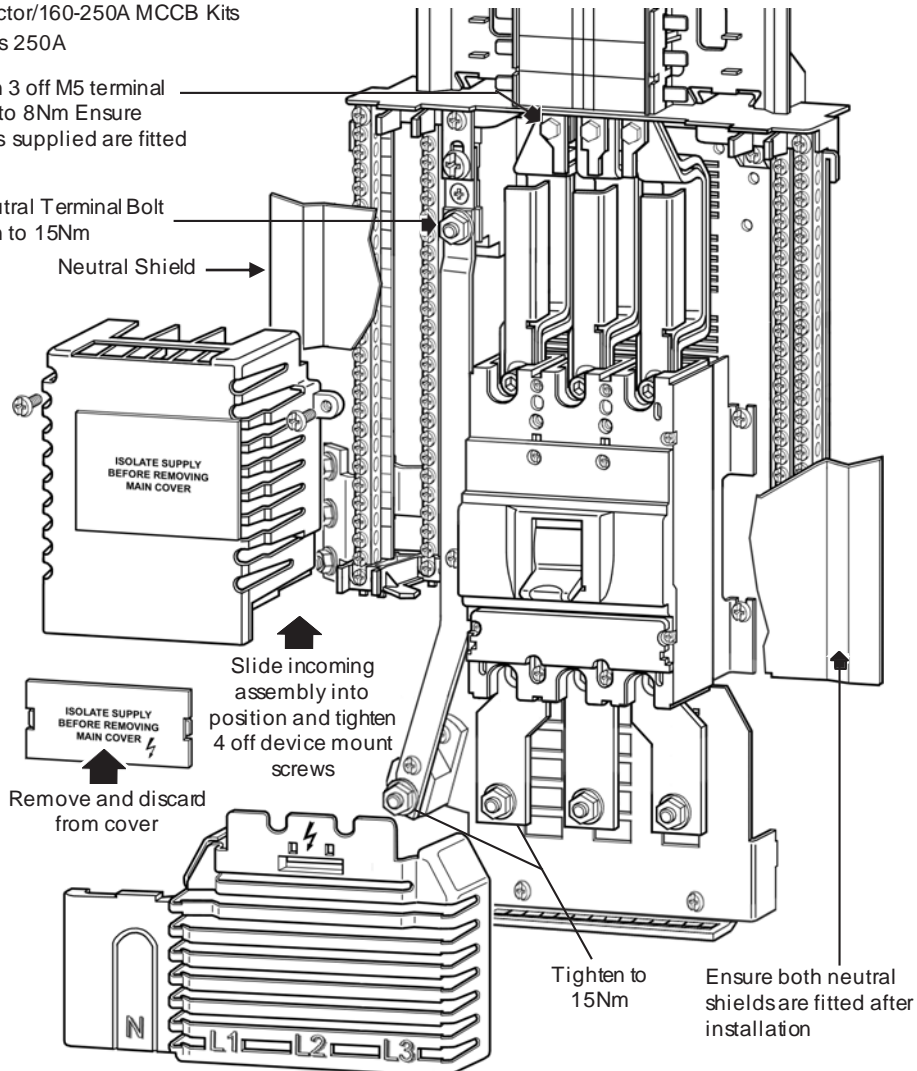
### **FITTING EBMS2503, EBMMB160, 200, 250**

250A Switch Disconnecter/160-250A MCCB Kits

NOTE: Illustration shows 250A

Tighten 3 off M5 terminal screws to 8Nm Ensure washers supplied are fitted

M8 Neutral Terminal Bolt  
Tighten to 15Nm



Technical drawing of the CAT 1000 cabinet, showing front and top views with dimensions and labels.

**Top View Dimensions:**

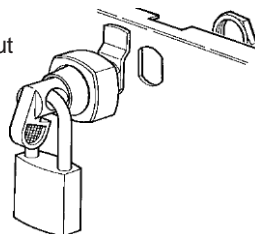
- Width: 326
- Depth: 130
- Internal Depth: 100
- Top Flange Thickness: 10

**Front View Dimensions and Labels:**

- Width: 440
- Height: 83
- Internal Height: B
- Bottom Width: 270
- Labels:
  - M6 Key hole fixing
  - Door Lock supplied as standard
  - A

CAT.No.	A	B
EBM22H / TP	817	633
EBM62H / TP	1021	837
EBM82H / TP	1055	871
EBM122H / TP	1180	996
EBM182H / TP	1342	1158
EBM242H / TP	1501	1317

Insert Lock  
into hole  
tighten  
back nut



For extra security fit  
padlock List No. PD2

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FED FROM: \_\_\_\_\_  
INCOMING CABLE SIZE: \_\_\_\_\_  
INSTALLATION DATE: \_\_\_\_\_  
CONTRACTOR: \_\_\_\_\_