

# GENERAL INSTALLATION INSTRUCTIONS

## Loadlimiter 63M Ultra TPN MCB Board



### The following are supplied with each MCB board :-

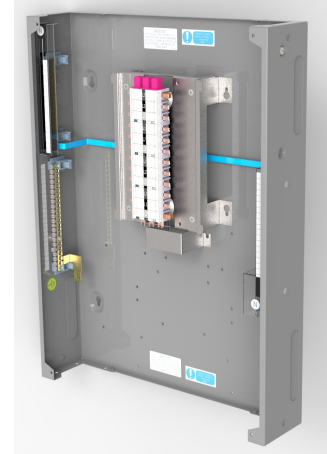
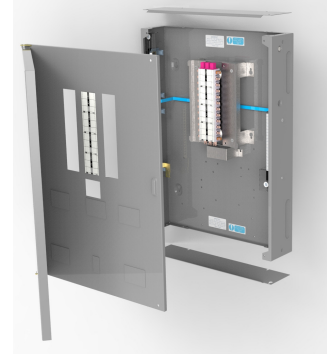
- 2 x Earth/Neutral cable clamps
- Dolly cover catch(s)
- Instructions
- On/Off label

INSTALLATION AND OPERATION MUST BE IN ACCORDANCE WITH PUBLISHED DATA, INSTRUCTIONS AND DIAGRAMS AND WITH ANY RELEVANT NATIONAL AND LOCAL REGULATIONS.

**Storage prior to installation must be in clean,**

### Installation Procedure

- 1) Remove door and front plate assembly by removing 4 fixing screws.
- 2) Remove end/gland plates as required by slackening 4 screws and sliding plate forward off keyhole fixings (no need to remove screws fully).
- 3) If preferred, pan assembly can be removed also
- 4) Hang enclosure on wall using top keyhole fixings on 398mm horizontal centres and secure.
- 5) Secure with 2 holes in bottom keyhole fixings
- 6) If previously removed refit pan assembly and secure.
- 7) Fit incoming switch disconnecter if required ( as described below)
- 8) Fit outgoing MCBs as described below.
- 9) Drill the end plates to accept the incoming and outgoing cable glands and refit.
- 10) Install the incoming and outgoing cables (as described below for neutral and earth connections).
- 11) Identify circuits on busbar and front plate way marker label and attach front plate way label matching phase orientation with busbar.
- 12) Refit door and front plate assembly.



### Fitting and Removal of MCBs—Fitting

- 1) **Ensure supply is isolated.**
- 2) Fully slacken all MCB terminal screws
- 3) Install all MCBs onto stems of busbar and tighten terminal screws whilst simultaneously pushing MCB towards busbar. (MCBs switch OFF towards the busbars)
- 4) Fit busbar terminal blanks onto unused ways

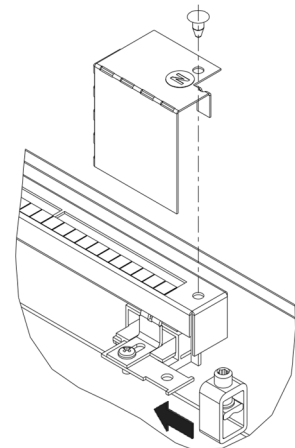
### Removal

- 1) **Ensure supply is isolated.**
- 2) Slacken terminal screws on MCBs to be removed.
- 3) Remove MCB by pulling away from the busbars

### Incoming Connections—Neutral/Earth

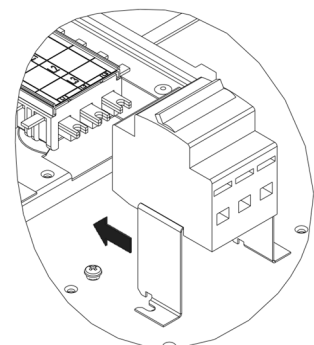
Separate neutral/earth bars are provided on either side of the busbars to simplify cabling. The left hand set has the earth bar at the bottom while the right hand set has the neutral at the bottom. Neutrals are linked by an insulated bar.

- 1) Remove shroud over incoming terminal. There is no need to remove any other shrouds.
- 2) Connect incoming neutral using either 6mm hole for crimp connector, or 150mm<sup>2</sup> cable clamp supplied. Max torque 12Nm
- 3) Connect incoming earth to terminal on left hand earth bar using either 6mm hole for crimp connector, or 150mm<sup>2</sup> cable clamp supplied. Max torque 12Nm
- 4) For clean earth connection remove the M6 stud from the lower left hand earth bar. The upper right hand earth bar must remain as a standard earth.
- 5) Connect outgoing neutral/earth cables so that numbered positions on bars correspond with MCB way numbers



### Switch Disconnecter Installation

- 1) Slacken both screws to remove mounting bracket at end of busbar
- 2) Fully slacken switch disconnecter terminal screws.
- 3) Clip switch disconnecter to mounting bracket
- 4) Offer up to busbar ensuring stems fully locate into switch disconnecter bottom terminals
- 5) Tighten mounting rail screws.
- 6) Tighten switch disconnecter terminal screws
- 7) Attach switch disconnecter ON/OFF label to right of cut-out in front plate



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### Maintenance

Maintenance must be carried out by competent personnel WITH THE SUPPLY ISOLATED. However no maintenance of the unit is required except for the periodic checking of the tightness of the terminals. All electrical connections should be correctly aligned, tightened and checked against the following torque figures:-

**M4** – 1.35Nm **M5** – 5.5Nm **M6** – 9.5Nm **M8** – 17Nm **M10** – 28Nm **M12** – 45Nm **M16** – 91Nm

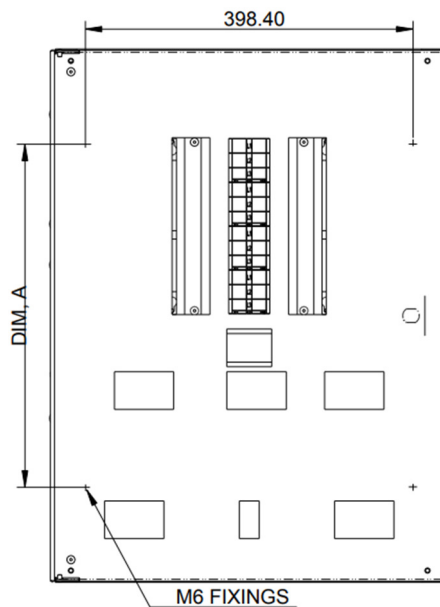
Note: 150mm<sup>2</sup> cable clamps supplied with 250A board should be tightened to a maximum torque of **12Nm**.

We recommend that you retain this sheet and store it with the panelboard for future reference.

### Installer's Checklist

- Are the MCBs correctly fitted and secure?.....
- Is the incoming device correctly fitted and secure?.....
- Have the busbar terminal balnks and MCB blanking pieces been fitted to all spare ways?.....
- Have all electrical connections been checked for tightness?.....
- Has the cover plate been securely replaced?.....
- Are all circuits adequately identified?.....

4 way	310.00
6 way	364.00
8 way	418.00
12 way	526.00
16 way	634.00
20 way	796.00
24 way	904.00



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