

# LOADBANK 125 YB1 INSTALLATION INSTRUCTIONS



## INSTALLATION PROCEDURE.

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, dry conditions.



### **Mounting enclosure**

- 1) Remove the two front plates/door assemblies.
- 2) Remove end/gland plates as required.



- 3) Hang the enclosure on the wall using the top keyhole fixings (595mm horizontal centres). And secure.
- 4) Secure the enclosure at the bottom fixings points.
- 5) Fit the incoming MCCB or Switch Disconnecter as described overleaf.
- 6) Fit the outgoing MCCB's as described overleaf.
- 7) Drill the end plates to accept the incoming and outgoing cable glands and refit.
- 8) Install the incoming and outgoing cables (as described overleaf for neutral and earth connections).
- 9) Identify the circuits on the busbar way marker labels.



- 10) Refit the front plates assemblies.
- 11) Identify the circuits on the front plate way marker labels.

### **Accessories**

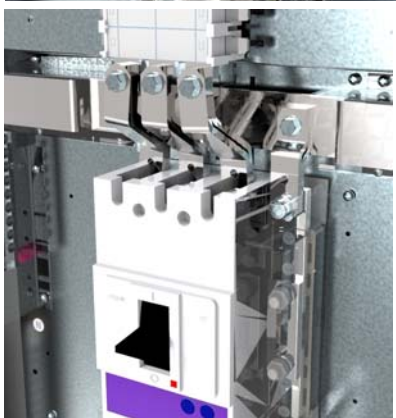
Service Centre :	PBSC32	<u>Initial Outgoing Meter Kit</u>	
Cable Spreader box:	PBCSB	Outgoing Meter Kit 125A:	PB125MK
Direct Conn 250A:	PBDC2	<u>Additional Meter Kit:</u>	
Direct Conn 400A:	PBDC4	Outgoing Meter Kit 125A:	PB125MKA
Incoming Meter Kit 250A :	PB250MK		
Incoming Meter Kit 400A:	PB400MK		
Surge Protection Kit (Type 1):	PBSPT1		
Surge Protection Kit (Type 2):	PBSPT2		

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250A

Panelboard



400A

Panelboard

## Fitting incoming MCCB's & Switch Disconnectors

- 1) Ensure the supply is switched OFF.
- 2) Remove the terminal shrouds below the busbar.
- 3) Mount the appropriate MCCB or Switch Disconnector below the vertical busbar using the mounting screws supplied.
- 4) If not fitting a 4 pole device mount the neutral link assy to the right of the incomer  
250A: YB3NLPB  
400A: YA5NLPB
- 5) Fit the inter-connections supplied (2 laminations per phase) between the MCCB/ Switch terminals and busbar terminals. Use the M8x25/20screws/washers for the 250A busbar terminals and the M8x30/25 screws/washers for the 400A busbar terminals.
- 6) Fit the interphase barriers supplied with the panelboard not the interphase barriers supplied with the MCCB/Switch.
- 7) Refit the terminal shrouds over the inter connections/ incoming terminals.
- 8) Verify the mechanical operation of the MCCB.
- 9) Check the electrical continuity of the MCCB.

## Fitting outgoing MCCB's

### Note MCCB's switch "ON " towards the outside of the board

- 1) Ensure the supply is switched OFF.
- 2) Remove the busbar terminal shrouds from the ways to be used (if fitted).
- 3) Offer the MCCB to the busbar terminals and secure using the terminal and mounting screws provided with the MCCB. (MCCB switches ON away from the busbar)
- 4) Refit the busbar terminal shrouds over the MCCB busbar terminal screws.
- 5) Verify the mechanical operation of the MCCB.
- 6) Check the electrical continuity of the MCCB.

## Neutral and earth connections

- 1) The neutral and earth incoming cables are connected to the terminals using suitable crimp connectors. (fasteners supplied)
- 2) All outgoing circuits suitable for up to 70mm<sup>2</sup>.

## MAINTENANCE

Maintenance must be carried out by competent personnel **WITH THE SUPPLY ISOLATED**.

However no maintenance of this panelboard is required except for the periodic checking of the tightness of all the following electrical connections:-

Incoming MCCB terminals and cable connections.

The connections between the incomer and panelboard.

Outgoing MCCB terminals and cable connections.

All Neutral and Earth bar terminals and cable connections.

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.**