

MEMSHIELD 4 INSTALLATION INSTRUCTIONS FOR EM4PBKEL404/EM4PBKEL804 EARTH LEAKAGE MODULES

Instruction leaflet LT1227 (01/19)

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, Requirements for the Electrical Installations (IET Wiring Regulations BS7671), Construction (Design and Management) Regulations, 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.
4. These Panelboards are only designed for use with Eaton MCCBs. Failure to comply will result in invalid warranty and certification.

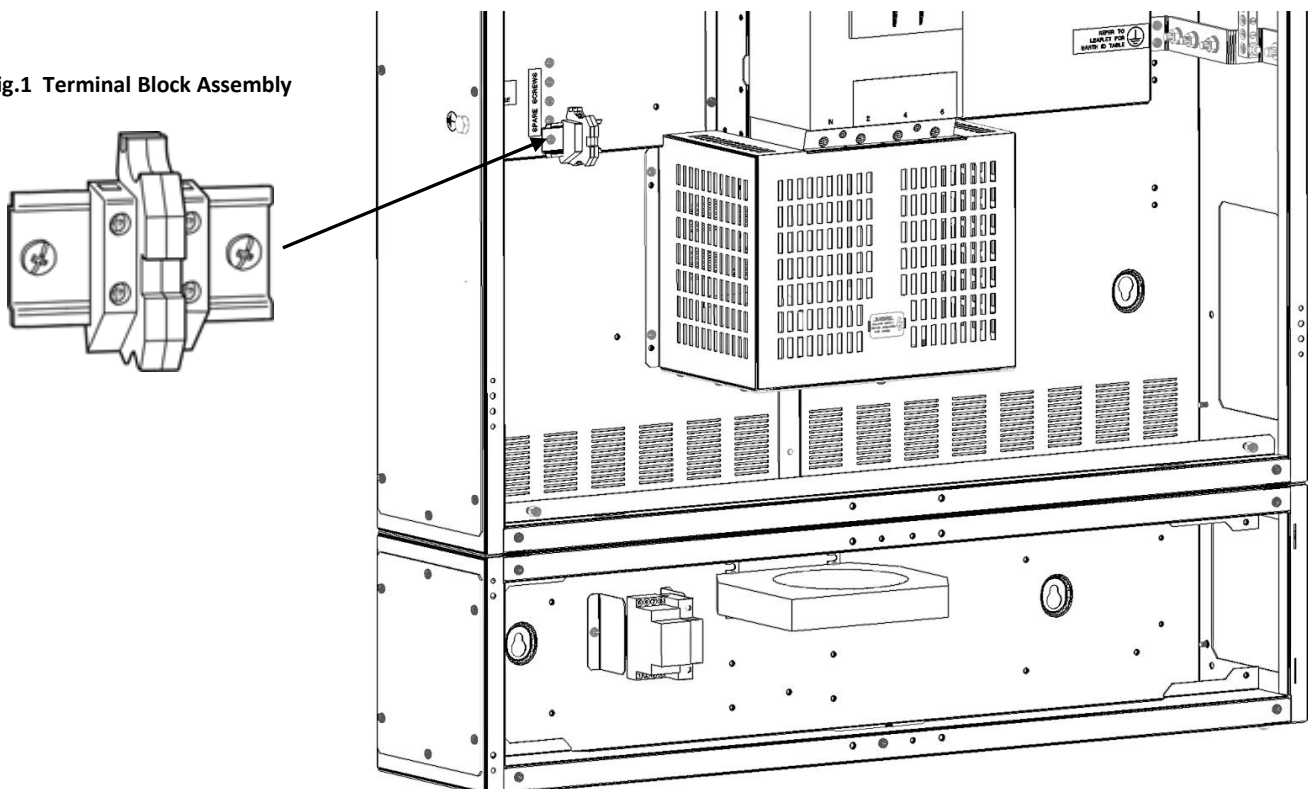
Items supplied with Earth Leakage Modules

M8 x 16mm long screw	2 Qty	2.5mm ² Double Insulated Grey/Brown) Cable	2.8 metres
M8 Hexagon Nut/washer	2 Qty	2.5mm ² Double Insulated Grey/Blue Cable	2.8 metres
M6 x 16mm long screw	4 Qty	2.5mm ² Cable Ferrules	2 Qty
M6 Hexagon Nut	4 Qty	2.5mm ² x M8 Ring Connector	2 Qty
M6 External Tooth Washer	8 Qty	1.5mm ² Grey Cable	2 metres
M5 x 8mm self tapping screw	2 Qty	1.5mm ² Cable Ferrules	6 Qty
Cable Ties	12 Qty	Shunt Trip	1 Qty
Cable Tie Bases	4 Qty		

Earth Leakage Module assembly instructions

1. Align the Module to the bottom of the Panelboard and fix together with provided screws: 4 x M6 screws and nuts; 8 x external tooth washers on either side of the joint to break the paint for earth continuity.
2. Fit the Shunt Trip provided to the incoming MCCB.
3. Fit the terminal block assembly (Fig.1) to the Panelboard. Using the DIN rail as template, mark the position of the 2 fixing holes. Drill 2 x 4.3mm dia holes and secure the terminal block assembly using the M5 x 8mm screws provided.

Fig.1 Terminal Block Assembly



4. Connect the Shunt Trip wire C1 (400A Board) / YELLOW (800A Board) to the Live terminal and C2 (400A Board) / WHITE (800A Board) to the Neutral terminal of the Terminal block using the ferrules provided.
5. Connect the terminal block Live to terminal 1 of the relay and the terminal block Neutral to the bottom Neutral terminal of the Fuse Disconnecter using the 1.5mm² cable and ferrules provided.
6. Connect the live busbar to terminal 1 of the Fuse Disconnecter using the 2.5mm² double insulated (grey/brown) cable, ferrule and M8 screw and nut/washer provided. (Fig.2)
7. Connect the Neutral Busbar to the top Neutral terminal of the fuse Disconnecter using the 2.5mm² double insulated (grey/blue) cable, M8 screw and nut/washer provided. (Fig.2)
8. Cable Ties and Bases are provided to secure the Line Voltage and Neutral cables.

**NOTE: All Terminal Cable connections 1.0Nm
M8 Screw connections 12-15Nm**

Fig.2 Connection to Live / Neutral Busbars

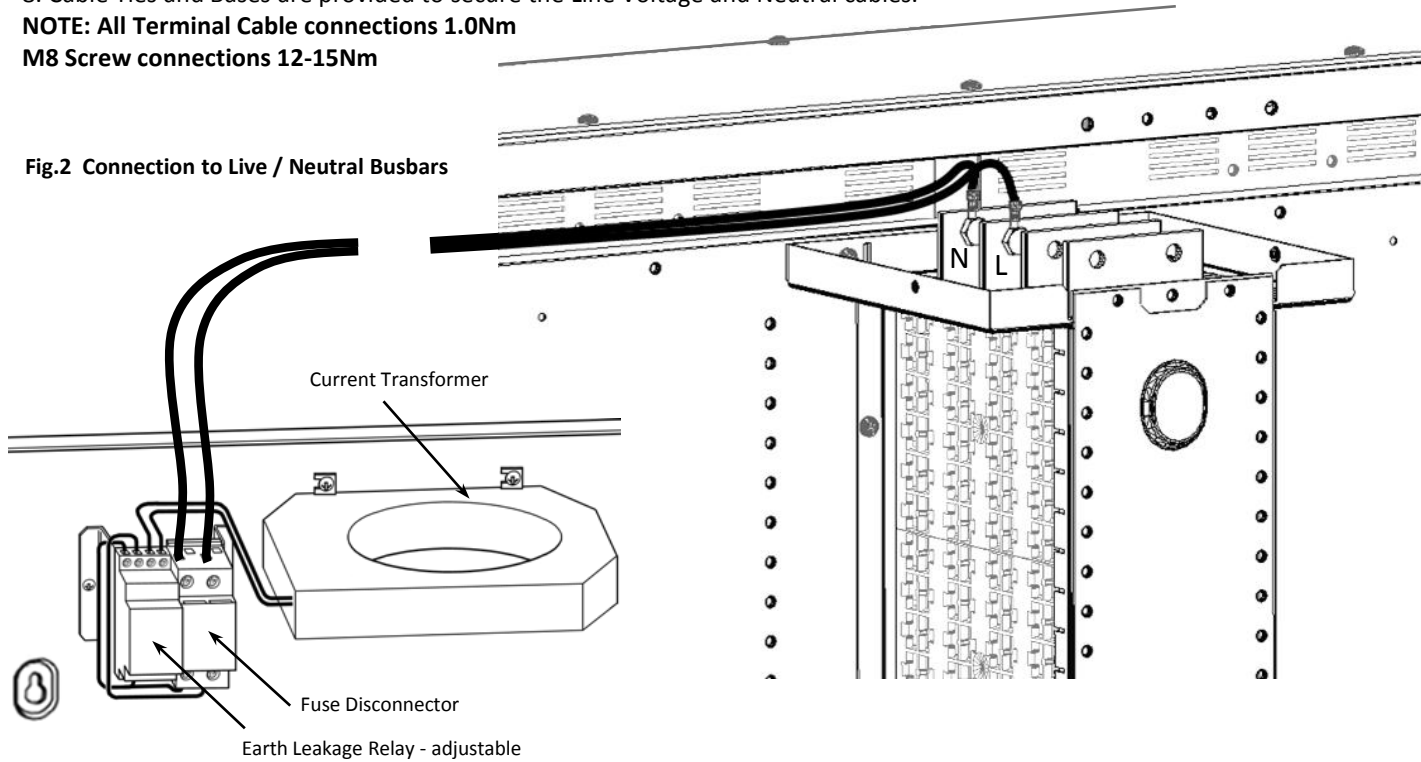
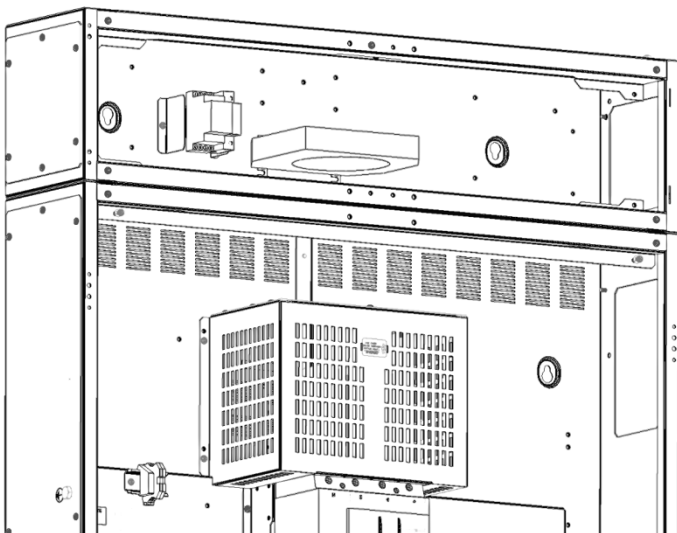
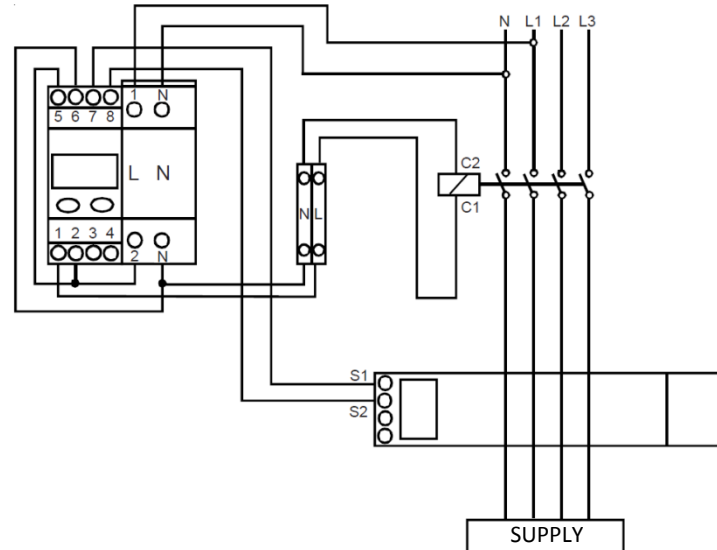


Fig.3 Top Entry

When fitting Top Entry move the CT in the Earth Leakage module as shown. Connect as instructions above.



Wiring Diagram



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No responsibility can be accepted by us if these instructions are disregarded. Further copies of these instructions and information concerning the installation and proper use of this product can be obtained by contacting the:
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