

Panelboard MCCB connection system

Installation instructions

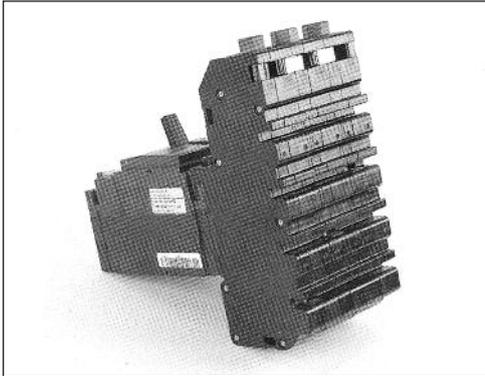


Fig 1

To allow installation of the Compact NSX MCCB into the Powerpact 4 panel board, a factory fitted connector is added to the MCCB (Fig 1). The connector is normally fitted to the “top” of the circuit breaker. The exception to this is main incoming breakers for top entry 630A boards, when the connector is fitted to the “bottom”. This instruction leaflet details the connector.

Snap-off feature

When the correct tightening torque is reached the top half of the terminal screw breaks off leaving just the bottom portion. It is important to ensure that the 17mm ring spanner or A/F socket used does not turn both the top and bottom of the terminal screw as this would prevent the top portion from snapping off.

The bottom portion that is left behind can be used in the event that the MCCB is changed or more often during routine maintenance when checking for tightness of all electrical joints.

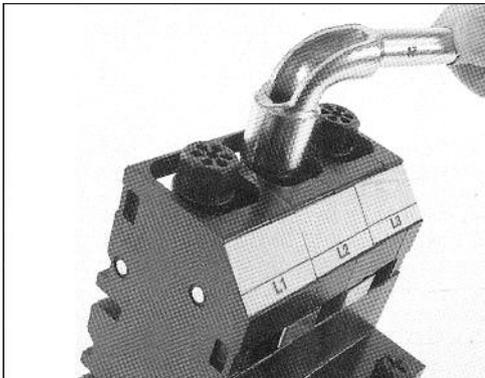


Fig 2

Installation

- Tighten shear head bolts on cassette using a 17mm A/F socket or ring spanner (Fig 2).
- The top half of the hexagon head will shear off (Fig 3) when the required tightening torque (20Nm for 250A and 28Nm for 400A/630A) is reached.

Note: Prepare yourself for this action and ensure you do not slip when the bolt head shears off.

For removing or refitting a device with sheared off bolts use a 17mm 12 point socket. Retighten connections to 20Nm for 250A and 28Nm for 400/630A breakers.

Note:

For single pole and double pole breakers the connector determines the phase that the breaker is connected to (i.e. MGP1001L1 - suitable to connect to the L1 phase).

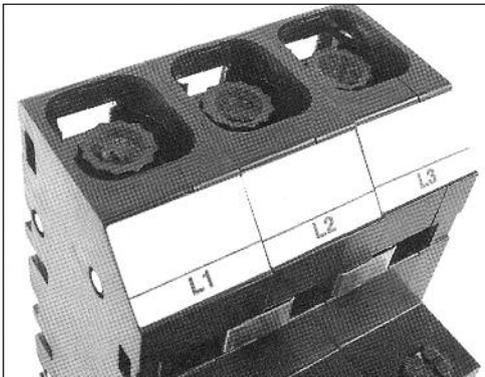


Fig 3

Health & Safety at Work, etc Act 1974

To ensure that the equipment described is safe for both personnel and property it should be installed, commissioned and maintained by or under the supervision of qualified persons. Regard should be taken of BS7671, Codes of practice, statutory requirements and any specific instructions issued by Schneider Electric. Any operating or installation queries relating to these products should be communicated directly to Schneider Electric.



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Panelboard neutral link 250/630A

Installation instructions

A neutral link can be fitted on an outgoing circuit alongside a single pole or triple pole circuit breaker.

Assembly

When purchased the neutral link is supplied fitted with a connector, ready to be fitted into the panelboard. It can be fitted to the left or the right hand side of the outgoing circuit breaker that it is associated with. We recommend mounting to the left for consistency.

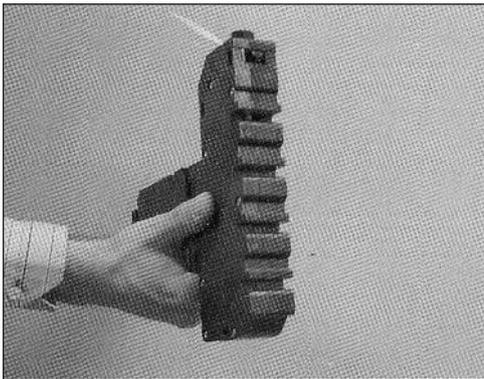


Fig 1

Installation

- a Remove the front cover from the panelboard by loosening the 4 captive screws.
- b Check the jaws on the connector, ensure that they are fully open (Fig 1).
- c Align neutral link into position on the outgoing tray (Fig 2) and secure with the screw provided. This screw has a captive washer/clamp (Fig 3a & b).
- d Tighten shear head bolt, using a 17mm A/F socket or ring spanner. The top half of the hexagon will shear off when the correct tightening torque is reached (20Nm for 250A and 28Nm for 400/630A). Torque tolerances are 5%. (See Panelboard MCCB connection system)

Note: prepare yourself to ensure this does not cause you to slip.

e Isolation of Neutral Link

To isolate the neutral link remove the cover from the top of the link. Slacken both nuts using a socket spanner, slide the copper connection to disconnect (Fig 4).

f Reconnection of Neutral Link

For reconnection, reverse the process. The 250A neutral link M6 nuts are tightened to 6Nm. The 630A neutral link M8 nuts are tightened to 8Nm.

- g Refit and secure cover with 2 screws provided.
- h Tighten cable terminal connections (Fig 5). For 250A tighten M8 cap screw to 15Nm and 630A tighten M10 cap screw to 50Nm.
- i Blank any unused ways using blanking plates.
- j Refit the front cover of the panelboard and tighten screws.



Fig 2

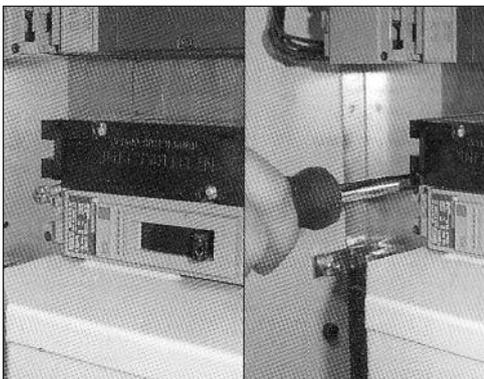


Fig 3a

Fig 3b

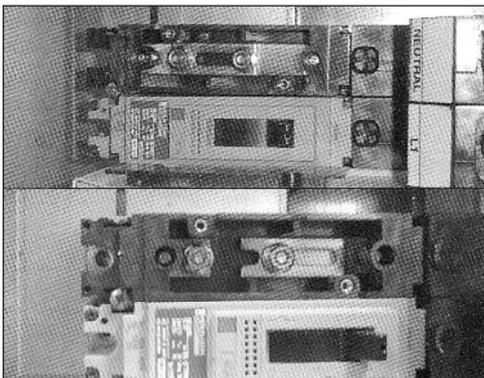


Fig 4

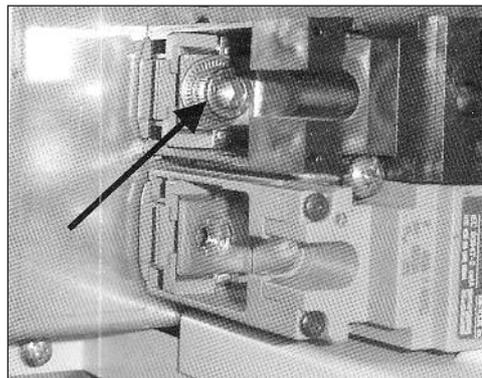


Fig 5