

MCP RANGE PANELBOARD - FITTING INSTRUCTIONS

IMPORTANT INFORMATION

Please read all notes before commencing work. It is assumed throughout that personnel working on the panel board are electrically competent. This distribution board should be installed, commissioned and maintained by competent personnel in accordance with current electrical engineering codes of practice, the current IEE regulations (BS 7671), statutory requirements and any specific instructions issued by the company. The MCP range of panel boards have been designed to give many years of trouble free service with only minimal maintenance requirements.

Before commencing any work, ensure ALL supplies have been isolated and made safe, including the incoming cables.

FITTING OUTGOING MCCBs

All outgoing positions are designed to accept SP and TP mccb's up to 250A. When fitting mccb's the top "ON" side should face the cableway.

Open the bottom busbar clamps and fit over the busbar stub. Fit the mounting screw(s) but do not tighten down. 2 for TP, 1 for SP mccb's.

Now tighten the busbar clamp. With TP mccb's tighten the centre pole first, then the outer poles.

Do not over tighten otherwise damage and possible failure of the clamp may occur.

When torqued tighten the mounting screw. Any unused ways must be fitted with a blanking plate. To fit, push the recess over the busbar stub and push the locating peg into the mounting plate hole. These are single pole blanks, 3 required for 1 x TP position. Blank plate Ref: MCCBM1.

TORQUE VALUES

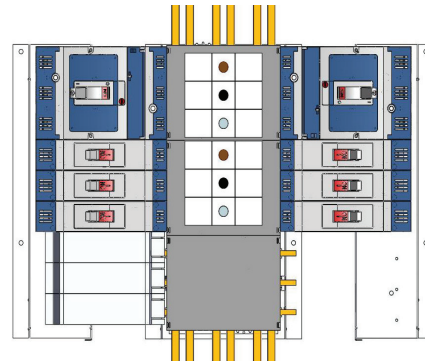
MCCB	TORQUE NM	THREAD SIZE
MC16 - 250A SP & TP	8	4mm Allan Screw
MC 315 - 800 TP	56	M12 bolt
Earth & Neutral bar	10/20	M6 / M8

ALL OTHER CONNECTION BOLTS SHOULD BE TIGHTENED TO:

M6	10Nm
M8	20Nm

CONNECTING OUTGOING CABLES

Cable end must be cut square and insulation stripped back to allow the cable to enter the full depth of the clamp. When tightening down ensure the clamp does not catch on the insulation. Observe torque figures.



EARTH & NEUTRAL CABLES

Lugged connections. Torque M6 - 10Nm. M8 - 20Nm. After tightening these cables refit the neutral bar shield.

INCOMING SUPPLY CABLES

Lugged connections.

315A to 800A.

After tightening the bolts the terminal shield must be refitted. M12 bolt.

EARTH CONTINUITY

After fitting the cover and securely tightening to the case it is necessary to check the earth continuity between the cover and the case in accordance with the current edition of the IEE regulations

TECHNICAL SPECIFICATION	
Supply	230 / 400V, 3 phase, 4 wire, 50Hz
Indoor application only	IP3X, pollution degree: 3, intended for stationary use only
EMC classification	Environment A
Busbar conditional short circuit rating Icc	36kA
SP and TP MC range MCCBs up to 250A	36kA category A
Busbar sizes available	250A, 400A and 800A
MCCBs	BS EN 60947-2
Panelboard and busbar	BS EN 61439-2

DIVERSITY

The board is designed to BSEN61439 part 2. Rated Diversity Factor is 80% applied to the whole assembly

MAINTENANCE

The MCP range of panel boards have been designed to give many years of trouble free service with only minimal maintenance requirements. We recommend the following annual maintenance is carried out:

- All electrical connections are to be checked for tightness and should be visually inspected for any signs of deterioration.
- Mechanical connections (i.e. framework bolts, equipment mounting bolts etc) should be checked for tightness. Also operate the devices to ensure free movement of the mechanism.
- As with any electrical equipment, cleanliness is of the utmost importance. Care should be taken to ensure the panel is free of moisture and foreign bodies



01952 292 001
www.proteusswitchgear.co.uk
ind@proteusswitchgear.co.uk

Proteus Switchgear
Stafford Park 12,
Telford,
Shropshire,
TF3 3BJ

