

Frequently Asked Questions

MEM[®] MCB & MCCB Distribution Solutions and Protective Devices Technical FAQ's

February 2010

1. What is the 30ma RCD incomer to use with for example an "EBM121" Memshield 3 board?

Answer: EBMR30

Note - if you purchase an RCD from the "EAM" range, whilst this is the same RCD, you would not get the complimentary parts that are needed to mount it within the MCB board - such as a terminal shroud. Always buy the EBMR30 kit of parts that includes both the RCD and all necessary additional items.

2. What is the part code for the single phase strapping link to use with the "EBMS1251N" incomer?

Answer: An EBMS1251N is actually the full "kit" of parts to single-phase and 3 phase Memshield 3 "EBM" 125 amp type board, and as such the kit will include the main switch AND the strapping link.

3. Why don't the Memshield 3 RCBO's have the usual white "earth reference lead" as we are familiar with from Memshield 2 RCBO's?

Answer: The functional earth lead is only required in the very unlikely event of loss of a Neutral supply at the same time as an earth fault occurs (double fault condition).

In the event of an earth fault combined with loss of the Neutral supply, the likelihood is that the voltage (line to earth) will be suppressed by the fault and may well in effect be reduced below the lowest working voltage of the electronics (typically a minimum voltage of around 50V needed to power the internal circuits).

4. Will Memshield 2 devices (i.e. MCB's and RCBO's) fit into the new Memshield 3 boards?

Answer: The Memshield 3 boards only use devices from the new range.

5. What are the part codes for your MCCB panel board blanking pieces to cover any un-used outgoing ways?

Answer: In the series G range of MCCB panel boards there are 6 types of board, which use the following blanks:

- Board Types 1 to 3 use the "PBEGB1" blank (which is a single pole blank - for 3 phase outgoing ways - just order Qty 3 of them).
- Board Types 4 and 5 use a mixture of the "PBEGB1" single pole blank on the smaller aperture ways, and the "PBJGB3" 3 phase blank on the larger apertures which are located near the bottom of the board.
- Type 6 boards use both the blanks mentioned above, AND the "PBLGB3" blanks for the very largest aperture spaces (which are located at the bottom of the board nearest the incomer switch).

6. Why have the panel board part numbers changed to include an "M" suffix - i.e. "PBEG1225M"?

Answer: The "M" suffix to the MCCB panel board ordering codes means that these boards now come complete with removable side gland plates, helping with cable access should you want to add a metering facility for individual outgoing MCCB's. In the past you would have had to cut out access holes in the side of the board to gain access for the cabling needed, whereas now the removable gland plates speed up installation time greatly.

* **Note!** - These boards are perfectly suited for use on both metered and non-metered applications.

7. Are Memshield 2 breakers compatible with Memshield 1 boards?

Answer: No, Memshield 2 breakers are not compatible with Memshield 1 - and vice versa. However, we still produce the original Memshield 1 MCB / RCBO units, 16 years after the board were last produced.

8. Is there a replacement for the "MGL" or "TLG" range of MCCB's?

Answer: Yes, the "GGH" prefix breakers are an alternative but only for boards that have a list number beginning with "PBG.." (MEM) or "TG" (Bill Switchgear).

This list number of the board can be found on the inside of the front door of the board, written on the rating label. The kits include both the MCCB itself and an adaptor piece. Note, that the boards themselves require minor modification to allow the breaker / adaptor combination to fit.

9. Is there a replacement for the "MEL" E- frame range of MCCB's?

Answer: No. These boards were last produced in the early 90's. You would need to replace the complete board, incomer and all outgoing MCCB's for one of the latest range Series G panel boards.

10. Who should further technical questions be referred to in Eaton?

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