

400A Mains Distribution Assembly to Supply Portacabin Complexes

In order to simplify the provision of supplies to large Portacabin complexes, we have introduced a standard 400A Mains Distribution Assembly (MDA) fitted with 2 no. 12 way MCB pan assemblies, which between them can accommodate up to 24 no. TP MCBs, 72 no. SP MCBs or any combination of the two. In addition, the MDA is fitted with a 250A 4P MCCB with variable RCD in a segregated compartment, which can be used to supply a sub-distribution board or a piece of heavy plant. The new MDA is available with and without dedicated sockets for testing RCDs.

The MDA is fitted with a 400A 4P incoming MCCB, which has an electronic trip that can be adjusted on site from 400A to 144A, making the MDA suitable for a wide range of supplies rated up to 400A. The MCCB feeds our ASTA certified bus bar system, which has a short circuit rating of 25kA.

On the distribution side, two 12 way pan assemblies are incorporated, each fed from a 160A 4P MCCB with adjustable RCD. The RCD sensitivity can be adjusted in the range 100mA to 30A and the RCD time delay can be adjusted from 0 to 10 seconds, to discriminate with upstream and downstream RCDs (please note that on a TT supply the maximum permissible time delay, at any point of the installation, is 1 second). The 160A MCCBs have thermal magnetic trips and they can be adjusted in the range from 160A to 112A.

The pan assemblies are 12 way triple pole and they are supplied with all ways blanked off. The pans accept Schneider Acti9 MCBs, SP, DP or TP, rated up to 63A with B, C or D type trips. Pans also accept SP RCBOs rated up to 45A with B or C type trips. In addition, all MCBs can be fitted with VIGI add-on RCD modules, enabling any MCB to have individual RCD protection. Please note that the VIGI devices utilise space in the pan assembly, which reduces the overall number of outgoing ways that can be fitted.

The MDA is also fitted with a 250A 4P MCCB with variable RCD protection, which is housed in a segregated compartment. The RCD sensitivity can be adjusted in the range 100mA to 30A and the RCD time delay can be adjusted from 0 to 10 seconds. The MCCB has electronic trips, which can be adjusted on site down to 90A making it suitable for a wide range of loads.



Part Number S141459, MDA, 400A



Pan assembly protected by local MCCB / RCD



Separate incoming and outgoing compartments

Part No.	Type Reference	Test Sockets
S141459	B5/MC400-4P/MRCD1/MGPA12x2	Not fitted with test sockets
S141459TS	B5/MC400-4P/MRCD1/MGPA12x2/TS	Fitted with test sockets

The above MDAs are generally available from stock, along with the other standard MDAs in our range, rated up to 1600A.