

Standard 400A Mains Distribution Assembly

To meet the demand for shorter and shorter lead times for high current Mains Distribution Assemblies (MDA), we have introduced a Standard 400A MDA, which is stocked at our Crayford and Wakefield Customer Service Centres.

In order to maximise the flexibility of the assembly, the incoming and outgoing MCCBs incorporate Electronic Trips, which can be simply and easily adjusted on site from 40% to 100% of the nominal rating (In). The specification of the MDA is detailed below, including guidance on how to adjust the MCCBs.

Part Number: S140290

Type: B4/MC400-4P/MC3-RCD/MGPA12

Enclosure

Wall mounting pattern. Optional angle iron stand is available to free-stand the enclosure - see below.

Incoming Switchgear

400A, 4P MCCB

(MCCB adjusts from 400A to 160A)

Distribution Switchgear

1 no. 250A 4P MCCB with variable RCD protection
(MCCB adjusts from 250A to 100A)

1 no. 160A 4P MCCB with variable RCD protection
(MCCB adjusts from 160A to 64A)

1 no. 160A 4P MCCB with variable RCD protection feeding an integral 12 way TP+N MCB pan assembly, which can be fitted with MCBs rated from 1A to 63A; SP, DP or TP; Type "B", "C" or "D".

Please refer to the adjacent box for guidance on the adjusting and setting of electronic MCCBs.

Electronic MCCBs also incorporate an LED to indicate the percentage load i.e. when the load is in excess of 90% of the "set" rating, the LED is ON. When the load is in excess of 105% of the "set" rating, the LED flashes.

Please note: the MCCB feeding the pan is not electronic.

Optional Stand - Part Number S140809

For more detailed information on the specification of our MDAs please refer to TemPower Data Sheets reference TMPDS8 and TMPDS9 and Technical Data Sheet reference TDS6.

MCCB Adjustment

The overcurrent trip threshold is set via two dials on the front of the MCCB. The product of these two settings (identified as I_o and I_r) multiplied by the nominal rating of the MCCB (I_n) sets the overcurrent trip threshold. Setting examples.

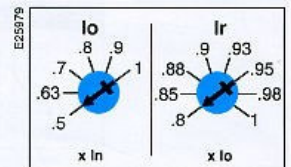
1. What is the overcurrent protection of an MCCB where $I_n=630A$ and the trip unit is set at $I_o=0.5$ and $I_r=0.8$?

Answer: $I_n \times I_o \times I_r = 630 \times 0.5 \times 0.8 = 252A$

2. What is the overcurrent protection of an MCCB where $I_n=250A$ and the trip unit is set at $I_o=0.9$ and $I_r=0.8$?

Answer: $I_n \times I_o \times I_r = 250 \times 0.9 \times 0.8 = 180A$

MCCBs incorporate a third dial, identified as I_{sd} . This sets the short circuit trip threshold at a multiple of the set overcurrent rating, I_n in a range from 2 to 10 times i.e. when $I_r = 180A$, I_{sd} can be set between 360A and 1800A.



S140290 - B4 Mains Distribution Assembly

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