

Standard 400A / 630A Mains Distribution Assembly

To meet the demand for shorter and shorter lead times for higher current Mains Distribution Assemblies (MDA), we are introducing a Standard 400A / 630A MDA that will be stocked at our Crayford and Wakefield Customer Service Centres.

In order to maximise the flexibility of the stock assembly, the incoming and outgoing MCCBs will incorporate Electronic Trips, which can be simply and easily adjusted on site from 40% to 100% of the nominal rating (In). Therefore, the MCCBs incorporated within the MDA will have the following adjustment range:

Incomer 630A

Overcurrent adjustment range 252A to 630A

Outgoing 250A (2 per MDA)

Overcurrent adjustment range 100A to 250A

Outgoing 160A (2 per MDA)

Overcurrent adjustment range 64A to 160A

Refer to the adjacent box for guidance on adjusting and setting MCCBs

To increase flexibility further, the MDA incorporates an 8 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".

Part Number: S140261

Type: B52/ITC/MC630-4P/MC5-RCD/MGPA8

Incoming Terminations

Fitted with heavy duty copper bar terminals to terminate up to 2 no. 240mm² 4C SWA cables

Incoming Switchgear

MCCB, 630A, 4P, adjustable as detailed above

Distribution Switchgear

2 no. 250A 4P MCCBs each with variable RCD protection

2 no. 160A 4P MCCBs each with variable RCD protection

1 no. 160A 4P MCCB with variable RCD protection feeding an integral 8 way TP+N MCB pan assembly.

The MCCB feeding the pan is not Electronic.

Electronic MCCBs also incorporate an LED to indicate the percentage load. 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.

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 x I_o x I_r = 630 x 0.5 x 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 x I_o x I_r = 250 x 0.9 x 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, in a range from 2 to 10 times i.e. I_r = 180A, I_{sd} can be set between 360A and 1800A

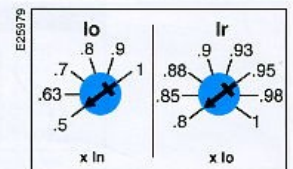


Image of a typical B52 Mains Distribution Assembly

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