

Standard 1600A 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 1600A MDA which is stocked at our Crayford Customer Service Centre.

In order to maximise the flexibility of the stock 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). All of the switchgear is Merlin Gerin except for the 800A MCCB, which is ABB. The general specification of the MDA is detailed below, including the adjustment range of the MCCBs.

Part Number: S140308

Type: B7/ITC/MC1600-4P/MC8-RCD/MGPA12

Incoming Terminations

Fitted with heavy duty copper bar terminals to terminate up to 6 no. 300mm² 1C cables per phase

Incoming Switchgear

1600A, 4P MCCB

(MCCB adjusts from 1600A to 640A)

Distribution Switchgear

1 no. 800A 4P MCCB (ABB) with variable RCD protection (MCCB adjusts from 800A to 320A)

1 no. 630A 4P MCCB with variable RCD protection (MCCB adjusts from 630A to 252A)

2 no. 400A 4P MCCBs each with variable RCD protection (MCCB adjusts from 400A to 160A)

2 no. 250A 4P MCCBs each 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 TM-D 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". The pan assembly is mounted in an end box.

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

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

MCCB Adjustment

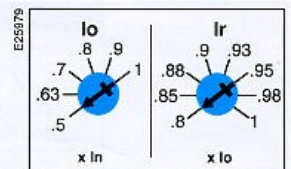
The overcurrent trip threshold is set via two dials on the front of the MCCB. The product of these two settings (identified as I_o and I_r) multiplied by the nominal rating of the MCCB (I_n) sets the overcurrent trip threshold.

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 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



B7 MDA with low ground clearance (to stand over a trench)

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