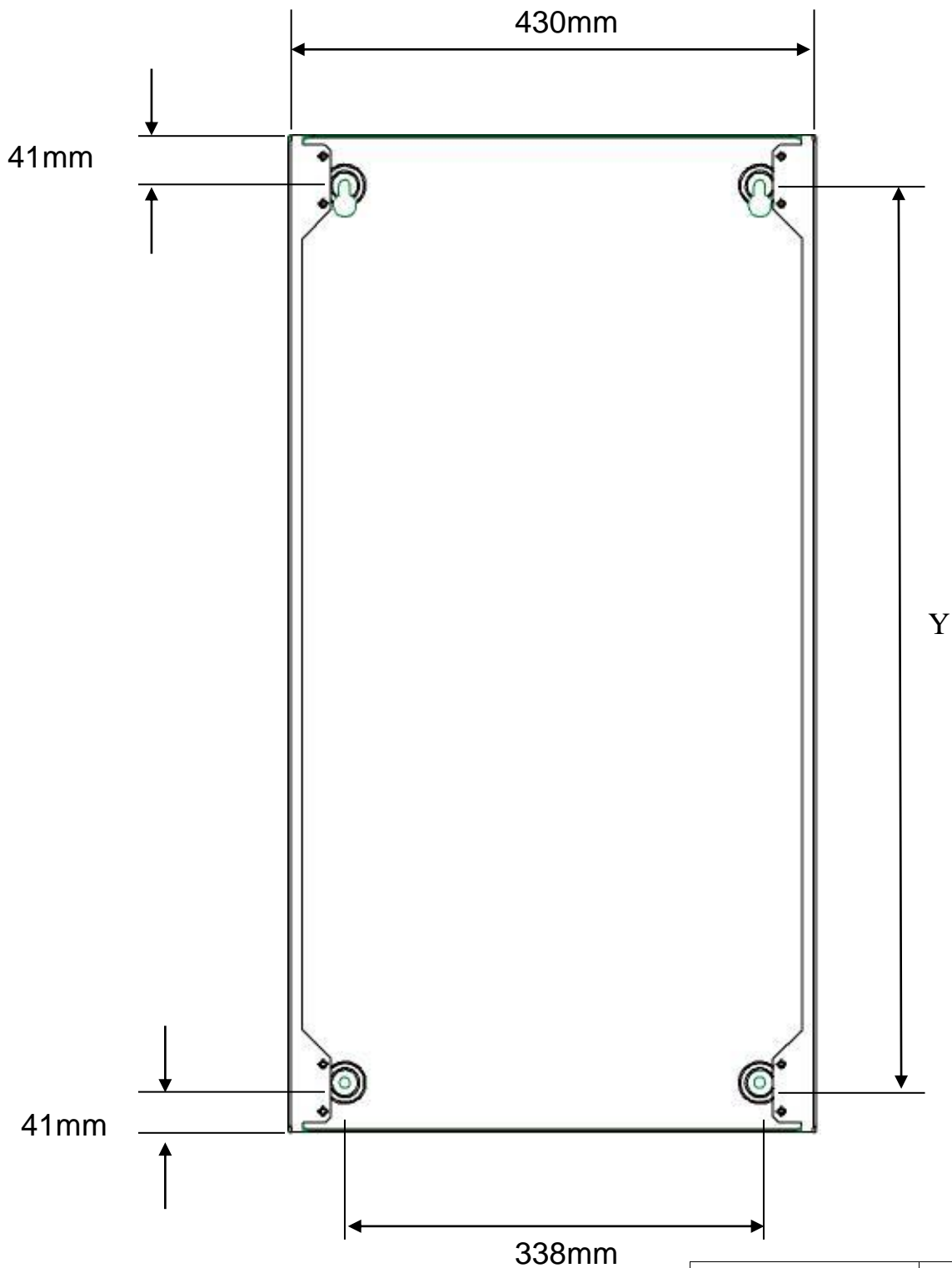


# Fixing Centres



Unit	Y Dimension (mm)
18PSC04MR	405
18PSC06MR	486
18PSC08MR	567
18PSC12MR	729
18PSC16MR	810
18PSC20MR	916
18PSC24MR	1053



Electrium Sales Limited, Walkmill Lane, Cannock, WS11 0XE, England  
Tel: 01543 455000 Fax: 01543 455001



Waste electrical products should not be disposed of with household waste.  
Please recycle where waste disposal facilities exist.  
Check with your retailer, wholesaler or local authority for recycling advice.



**DISTRIBUTION BOARDS:** - 18PSC04MR / 06MR / 08MR / 12MR / 16MR / 20MR & / 24MR

Designed for 18 mm MCBs (25 mm MCBs DO NOT FIT)

**Safety Note**

**“This unit should be installed by a qualified competent person in accordance with all relevant legislation and regulations including building regulations and wiring regulations BS7671. If in doubt contact a qualified competent person”**

**Turn off all power supplying this equipment before commencing work on or inside the distribution board.**

Test with appropriately rated test equipment to ensure power is off.

Replace all devices, blanks, doors, neutral shroud and covers before turning the power on.

To avoid swarf and other foreign objects entering the enclosure always remove gland plates to cut cable / trunking entries.

Important – the terminal screws of all incoming devices should be fully opened before fitting.

**DO NOT USE POWER TOOL SCREWDRIVERS ON ELECTRICAL CONNECTIONS**

**DIN Mounted 3 Pole Switch Disconnecter Cat No 1253SD**

- Ensure supply is switched off.
- Push the incomer up to the base of the busbar moulding.
- Make sure that the DIN clips locate on the half DIN rail on the base plate.
- Press and hold the incomer in place while tightening the connections to the busbar stubs.
- Connections should be tightened to a torque as recommended for device been fitted.

**DIN Mounted 4 Pole Switch Disconnecter Cat No 1254SD**

- Ensure supply is switched off.
- Fix the DIN rail to the lower position using the fixing screws provided.
- Fix the Switch on to the DIN rail.
- Remove neutral link and box lug terminal from terminal bar and pan assembly.
- Use the 4-pole mounting kit (18LK125) to make connections from the Switch to the busbar and neutral bar.
- Connections should be tightened to a torque as recommended for device been fitted

**Direct Connection**

- Ensure supply is switched off.
- Fix the DIN rail to the lower position using the fixing screws provided.
- Fix the direct connection module on to the DIN rail.
- Use the 4-pole mounting kit (18LK125) to make connections from the direct connection module to the busbar
- Connections should be tightened to a torque as recommended for device been fitted

**Caution**

**Crabtree switch disconnectors 125SW3 & 125SW4 are unsuitable for installation applications with a prospective fault level greater than 10kA.**

**Due to their module width Crabtree MCBs prefixed 60B, 62B or 63B are unsuitable for mounting in the POLESTAR COMPACT Distribution Boards, e.g. 60B/06, 62B/06 & 63B/06.**

**Due to their module width Crabtree RCBOs prefixed 602C are unsuitable for mounting in the POLESTAR COMPACT Distribution Boards, e.g. 602C/063.**

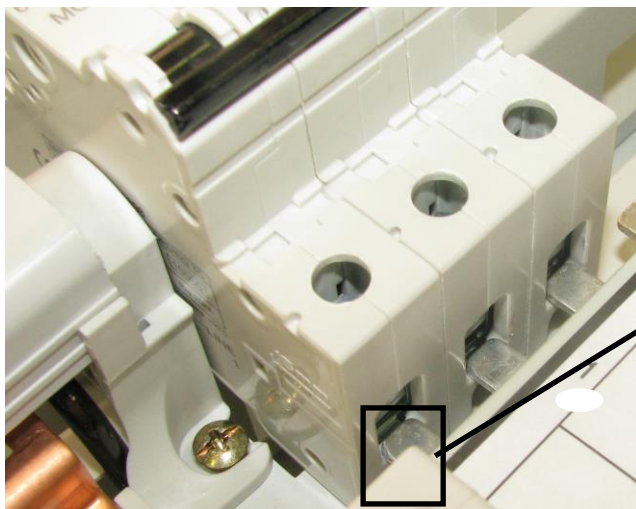
## Outgoing way numbering

The outgoing ways must be identified. If the busbar assembly is not pre-numbered, then the installer must number the outgoing ways. Odd numbered ways on the left of the board way 1 being either at the top or bottom of the busbar assembly. Even numbered ways on the right of the board ascending in the same direction as the odd numbers. Way 1 must be opposite way 2, both either at the top or the bottom of the busbar assembly.

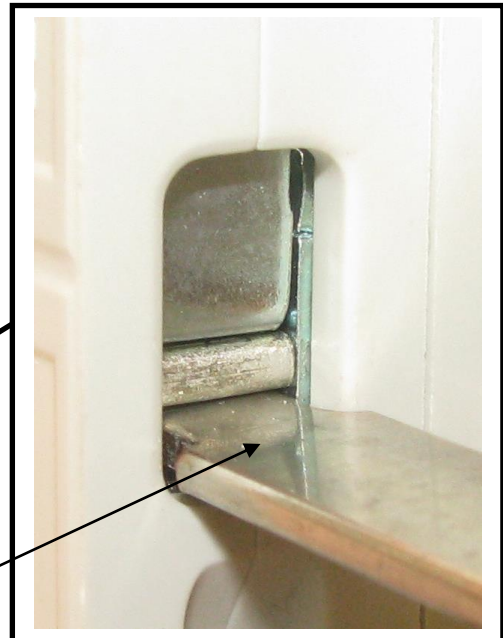
Note – Blank earth and neutral labels are provided.

## Installation of MCBs

- Ensure supply is switched off.
  - Only Crabtree MCBs can be used in Crabtree POLESTAR COMPACT Distribution Boards.  
For prospective fault level applications of 10kA or less use 6HS, 6HD and 6HT MCBs.  
For prospective fault level applications of 16kA or less use 70B/C/D, 72B/C/D and 73B/C/D MCBs.
- DO NOT USE MCB'S THAT DO NOT HAVE PHASE BARRIERS.
- **Ensure that the MCB phase barriers are intact and are not damaged or removed**  
i.e. Terminal screws are fully shielded between phases.
  - Fully slacken all MCB terminal screws.
  - **Caution: The combined maximum load on two facing MCBs/RCBOs on a common cross link (e.g. Way 1 + Way 2) must not exceed 100A.**
  - Push MCB onto appropriate busbar outgoing way – In 3 phase boards make sure that the DIN clip faces towards the busbar assembly in the centre of the board
  - Fully tighten busbar connections to recommended torque marked on MCB



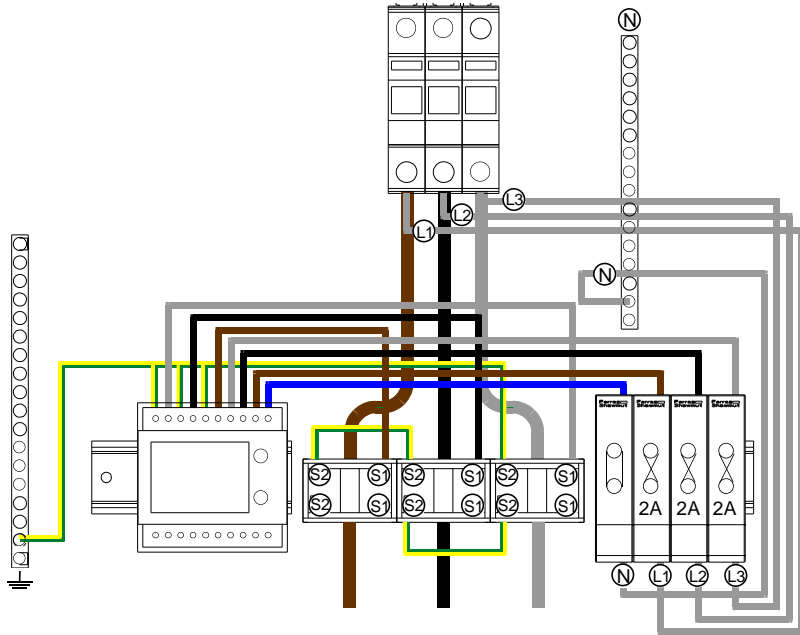
Busbar connection into lower cage, ensure cage is fully lowered before attaching to busbar



## Installation of RCBOs

- Ensure supply is switched off.
- Only Crabtree RCBOs can be used in the Crabtree POLSTAR COMPACT Distribution Boards  
For prospective fault level applications of 10kA or less use 6HSR RCBOs.  
For prospective fault level applications of 16kA or less use 701C RCBOs.
- Fully slacken all RCBO busbar terminal screws.
- Push RCBO onto appropriate busbar outgoing way making sure that the DIN clip faces towards the busbar assembly.
- Fully tighten busbar connections to a recommended torque of device
- Connect RCBO neutral lead to appropriate numbered terminal on the neutral terminal bar.
- Ensure both live and neutral outgoing cables are terminated on the RCBO outgoing terminals.
- Connect white functional earth lead to appropriate terminal on earth terminal bar.
- Please note the 701 & 6HSR series of RCBOs have an unswitched neutral (i.e. a solid neutral).

## Integral 125A Meter Kit



### Integral 125A Meter Kit Options:

List No.	Description
125MP/50	Integral Meter Kit – 125A
125MP/50/MID	Integral MID Meter Kit – 125A

Device	Max. Cable Capacity	Recommended Tightening Torque
Main Switch	50 mm <sup>2</sup>	2.3 Nm (20 lbf-in)
MCB	25 mm <sup>2</sup>	2.3 Nm (20 lbf-in)
RCBO	16 mm <sup>2</sup>	2.0 Nm (18 lbf-in)
Earth & Neutral Terminals	25 mm <sup>2</sup>	2.3 Nm (20 lbf-in)
Earth & Neutral main termination point	50 mm <sup>2</sup>	2.5 Nm (22.1 lbf-in)
Removable Neutral link for isolation / test purpose	N/A	2.3 Nm (20 lbf-in)

### **Note**

Before fitting the front cover, check the tightness of **all** connections, including factory made connections.

### **Fitting the Front Cover**

Remove the appropriate rectangular knockout from the front cover.

3 pole 1253SD switch - remove small knockout (54 mm wide)

4 pole switch 1254SD remove larger knockout (72 mm wide)

Fit blanks to all unused ways.

Blanks	
Cat No.	Description
18PSCMBP1/6	Blanking Strip – 6 x (1 mod)
18PSCMBP3/4	Blanking Strip – 4 x (3 mod)
18PSCMBP2/12	Blanking Strip – 2 x (12 mod)
18PSCMBP1	1mod Dummy – MCB Profile