

Technical Information

NH 125A MCB Distribution Boards



Overview:

Devices (MCBs)

- 10kA Fault Rating
- 6A – 63A Current Range
- Single, Double & Triple Pole Variants
- Type B, C & D Characteristics

Devices (RCBOs)

- 10kA Fault Rating
- 6A – 50A Current Rating
- 30mA Sensitivity
- Type B & C Characteristics

Enclosures

- 125A SPN & TPN Distribution Boards
- Integral Metering Options
- Degree of Protection: IP3X
- Designed and Manufactured in the UK

Features:

- Incoming Options
 - 125A Sw Dis TP/4P (50mm²)
 - 100A RCCB 4P (35mm²)
 - 125A Direct Cable (50mm²)
- Busbars Rated at 200A
- Full compliment of Neutral & Earth terminals.
 - Incoming Maximum 70mm²
 - Outgoing Maximum 25mm²
- Allow fixture of dual Earth bars
- Clean Earth kit available
- All boards supplied as standard with hinged outer door and catch (lock is optional extra) and removable top / bottom gland plates
- Neutral busbar supports incorporate integral MCB end stop
- Paint Finish Grey Powder Coat to RAL7035
- Manufactured from 1.0mm gauge steel
- Compliance with BS EN60439-3

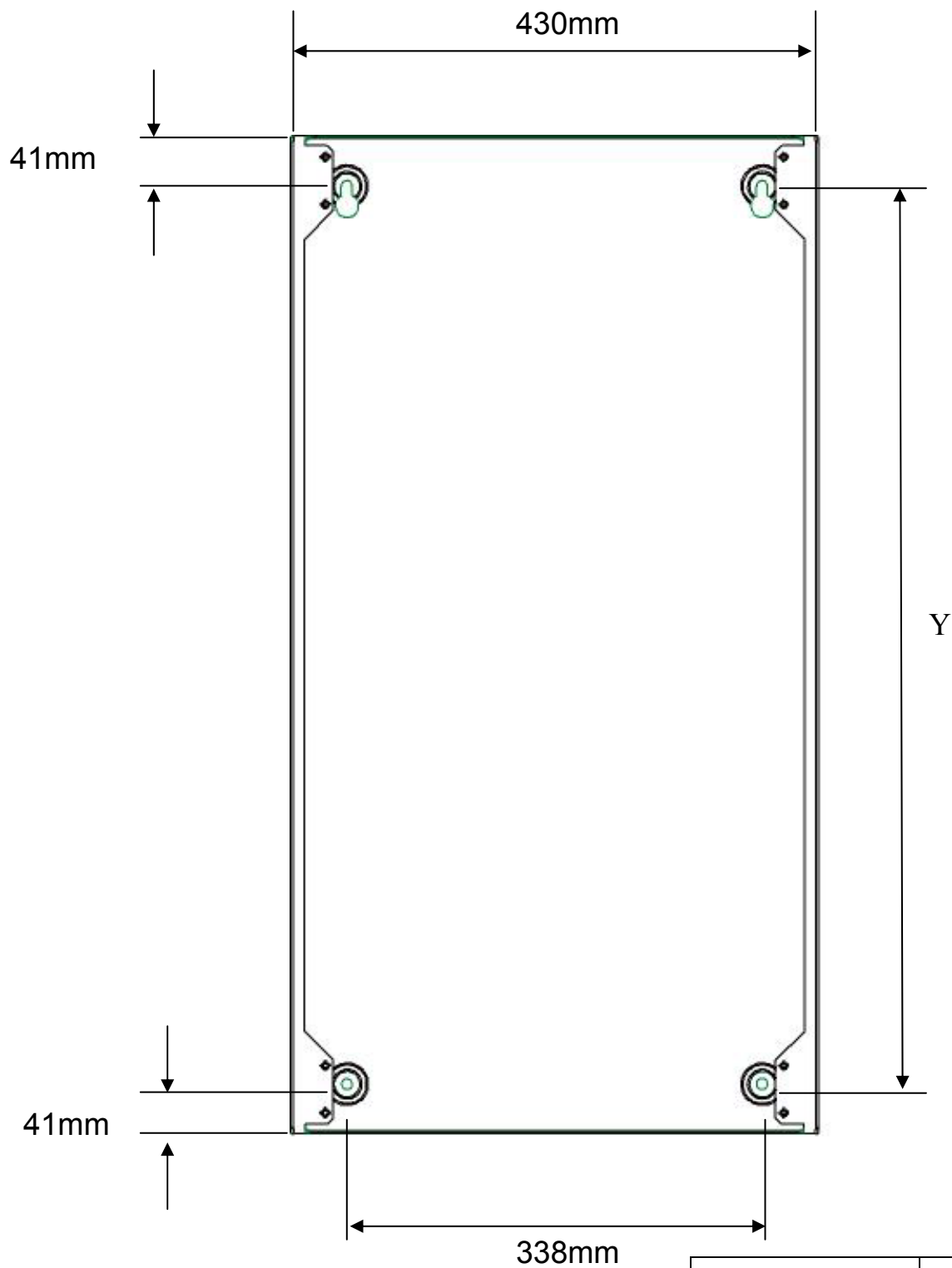
Dimensions:

No. of Ways	Height	Width	Depth	Part No.
4	490mm	430mm	155mm	NHTN4MR
6	570mm	430mm	155mm	NHTN6MR
8	650mm	430mm	155mm	NHTN8MR
12	815mm	430mm	155mm	NHTN12MR
16	895mm	430mm	155mm	NHTN16MR
20	1000mm	430mm	155mm	NHTN20MR
24	1140mm	430mm	155mm	NHTN24MR

Further Information:

Wylex Sales: 01543 455020
Wylex Technical: 01543 438320
Website: www.electrium.co.uk

Fixing Centres



Unit	Y Dimension (mm)
NHTN4MR	405
NHTN6MR	486
NHTN8MR	567
NHTN12MR	729
NHTN16MR	810
NHTN20MR	916
NHTN24MR	1053





INSTALLATION INSTRUCTIONS

NH TP & N Distribution Boards 125A

DISTRIBUTION BOARDS :- NHTN4MR /6MR /8MR /12MR /16MR /20MR & /24MR

PAN ASSEMBLIES :- NHPB4, 6, 8, 12, 16, 20 & 24

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 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.

Installation of Incoming Devices

The choice of incoming switch disconnecter is determined by the maximum rating of an outgoing MCB and the prospective fault level (PFL) at the point of installation.

Incomer	PFL up to 10kA 125A backup fuses	PFL 10 to 16kA 100A backup fuses	PFL 10 to 16kA 125A backup fuses
WS123, WS124	63A max MCBs	63A max MCBs	DO NOT USE
WS3P125, WS4P125	80A max MCBs	80A max MCBs	80A max MCBs

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 WS123 & Direct Connection

- 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 WS124 or RCD

- Ensure supply is switched off.
- Fix the DIN rail to the lower position using the fixing screws provided.
- Fix the Switch or RCD on to the DIN rail.
- Remove neutral link and box lug terminal from terminal bar and pan assembly.
- Use the 4 pole mounting kit (NH4PINKIT) to make connections from the Switch or RCD to the busbar and neutral bar.
- Connections should be tightened to a torque as recommended for device been fitted

DIN Mounted 3 pole or 4 Pole Switch Disconnecter WS3P125 and WS4P125

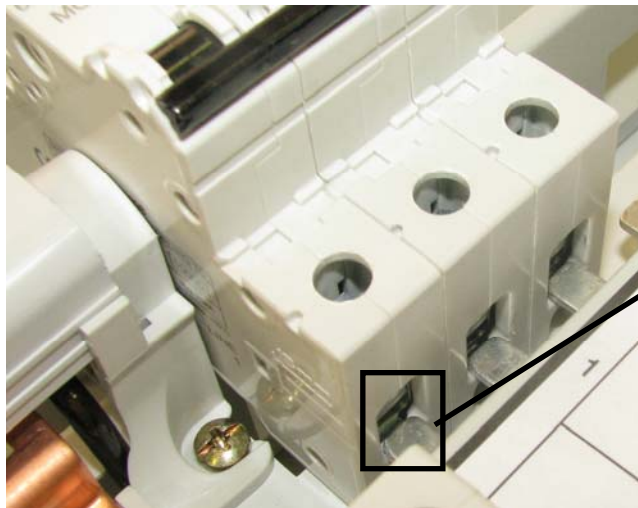
- Ensure supply is switched off.
- Fix the DIN rail to the lower position using the fixing screws provided.
- Fix the Switch on to the DIN rail.
- Remove neutral link and box lug terminal from terminal bar and pan assembly.
- Use the supplied mounting kit to make connections from the Switch to the busbar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

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.

Installation of MCBs

- Ensure supply is switched off.
- Only Wylex MCBs can be used in Wylex Distribution Boards e.g. NSB-B, NSB-C, NSB-D, PSB-B, PSB-C or PSB-D MCBs. **DO NOT USE NHX 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 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
- **DO NOT USE POWER TOOL SCREWDRIVERS ON ELECTRICAL CONNECTIONS**



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

Installation of RCBOs

- Ensure supply is switched off.
- 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.
- **DO NOT USE POWER TOOL SCREWDRIVERS ON ELECTRICAL CONNECTIONS**

Device	Max. Cable Capacity	Recommended Tightening Torque
Main Switch/ RCD	50mm ²	2.3Nm (20lbf-in)
MCB	25mm ² /35mm ²	2.3Nm (20lbf-in)
RCBO	16mm ²	2.0Nm (18lbf-in)
Earth & Neutral Terminals	25mm ²	2.3Nm (20lbf-in)
Earth & Neutral main termination point	50mm ²	2.5Nm (22.1lbf-in)
Removable Neutral link for isolation / test purpose	N/A	2.3Nm (18lbf-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 WS123 switch or direct connect - remove small knockout (54mm wide)

4 pole switch & RCD remove larger knockout (72mm wide)

Fit blanks to all unused ways.

Blanks	
Cat No.	Description
NHBL1	Blanks – 20x(1 mod)
NHBL3	Blanking Strip – 5x(3 mod)
NHBL6	Blanking Strip – 2x(6 mod)
NHBL9	Blanking Strip – 1x(9 mod)
PS00	Blanks – 50x(1 mod (x2 1/2mods))
NHBLM1	1mod Dummy