



# Installation instructions,

## 125A Distribution Board

BS EN 61439-3



**DANGER: LIVE PARTS ENCLOSED.** Ensure the unit is 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.



### **IMPORTANT INFORMATION**

Follow the instructions below before working on or inside the equipment.



- Turn off all power supplies
- Always use a calibrated volt-sensing device to confirm the power is off.
- Replace all devices, doors and covers before turning on the power to this equipment.
- To avoid ingress of swarf and similar material, always remove gland plates to allow cutting/slotting for cable entries.
- Do not use power screwdrivers on electrical connections.



**Failure to follow these instructions could result in serious injury or death.**

**Note:** - It is good engineering practice to apply generous derating factors or make provision for free air between devices. In these situations, and in common with other manufacturers, we recommend a 60 % diversity factor is applied to the outgoing device's nominal rated current where it is intended to load the outgoing device continuously (in excess of 1 hour).

### **Installation of Incoming Devices**

The choice of upstream protection for the incoming switch-disconnector is determined by the prospective fault level (PFL), at the point of installation.

Incomer	PFL up to 10 kA	PFL 10 to 16 kA	PFL 10 to 16 kA
WS123, WS124	<b>125 A backup fuses</b>	<b>100 A backup fuses</b>	<b>DO NOT USE</b>

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

### **Outgoing Devices**

The maximum rating of the outgoing devices to be installed in this distribution board is 63 A

### **DIN Mounted 3 Pole Switch Disconnector WS123 & Direct Connection**

- Ensure supply is switched off.
- Push the incomer up to the base of the busbar molding.
- 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 Disconnector 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 the torque as recommended for device being fitted
- For more information refer to the Product Catalogue

### **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: - Neutral and Earth blank outgoing labels are provided.

### **Installation of RCBOs and AFDDs**

- Ensure supply is switched off.
- Only Wylex RCBOs and AFDDs can be used in Wylex Distribution Boards:
  - PSBS\*\*B/1, PSBS\*\*/1
  - PSBS\*\*/1 LT
  - NXSB\*\*AFD
  - NXSC\*\*AFD
  - NHXS1B\*\*
  - NHXS1C\*\*
- 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 the functional earth lead to appropriate terminal on earth terminal bar.



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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.



## Installation of MCBs

- Ensure supply is switched off.
- Only Wylex MCBs can be used in Wylex Distribution Boards:
  - PSB\*\*B, PSB\*\*C and PSB\*\*D
  - PSBL\*\*B, PSBL\*\*C, PSBL\*\*D (NEW)
  - PSB3\*\*B/ PSB3\*\*C, PSB3\*\*D
  - PSBL3\*\*B, PSBL3\*\*C, PSBL3\*\*D (NEW)
- 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 100 A.
- Push MCB onto appropriate busbar outgoing way – In 3 phase boards make sure that the DIN clip faces towards the busbar assembly in the center of the board
- Fully tighten busbar connections to recommended torque marked on MCB

Technical Data	
Standards Compliance	IEC/BS EN 61439-3
Rated Voltage	230/400 V AC, 3PH, 50 Hz
Rated operational current	125 A
Maximum outgoing rating of the MCB	63 A
Short Circuit Withstand Rating:	10 kA for 0.1 s
Mounting	Wall
Operating / Storage temperature <small>This is an average of 24 h maximum</small>	-5 to +40 °C
Pollution degree <small>Environmental conditions for which the panel is intended</small>	2 Minimum
Humidity <small>At maximum temperature (+40 °C)</small>	50 %
Entry	Bottom
Access	Top / Bottom
Degree of Protection	IP2XC (door closed)
Paint Finish	Light Grey RAL7035
For more Information contact Technical support Tel: +44 (0) 1543 438310 Email: <a href="mailto:wylex.technical@electrium.co.uk">wylex.technical@electrium.co.uk</a>	

Device	Max. Cable Capacity	Recommended Tightening Torque
Main Switch/ RCD	50 mm <sup>2</sup>	2.3 Nm
MCB	25 mm <sup>2</sup> / 35 mm <sup>2</sup>	2.3 Nm
RCBO	16 mm <sup>2</sup>	2.0 Nm
Earth & Neutral Terminals	25 mm <sup>2</sup>	2.3 Nm
Earth & Neutral main termination point	50 mm <sup>2</sup>	2.5 Nm
Removable Neutral link for isolation / test purpose	N/A	2.3 Nm

**Table 3 - Dimensions for the main unit**

Main Units	Description	Dimensions (mm)			Distance from gland plate to incoming terminals (mm)
		H	W	D	
NHTN04L	4-Way 125A Surface 3P+N Distribution Board	488	430	146	218
NHTN06L	6-Way 125A Surface 3P+N Distribution Board	569	430	146	245
NHTN08L	8-Way 125A Surface 3P+N Distribution Board	650	430	146	272
NHTN12L	12-Way 125A Surface 3P+N Distribution Board	812	430	146	326
NHTN16L	16-Way 125A Surface 3P+N Distribution Board	893	430	146	299
NHTN20L	20-Way 125A Surface 3P+N Distribution Board	999	430	146	297
NHTN24L	24-Way 125A Surface 3P+N Distribution Board	1136	430	146	297
<b>Blanks</b>					
NHBL1	Blanking Strip – 1 module				-
NHBL3	Blanking Strip – 3 modules				-
NHBL6	Blanking Strip – 6 modules				-
NHBL9	Blanking Strip – 9 modules				-
NH18BB1L	SP MCB SIZE BLANK (5SL)				-
NHBLM1L	YELLOW INSULATORS (1 PACK 5 PIECES)				-

For full product range, see Product catalogue at: <https://www.electrium.co.uk/media/z1hie4vq/wylex-domestic-circuit-protection.pdf>

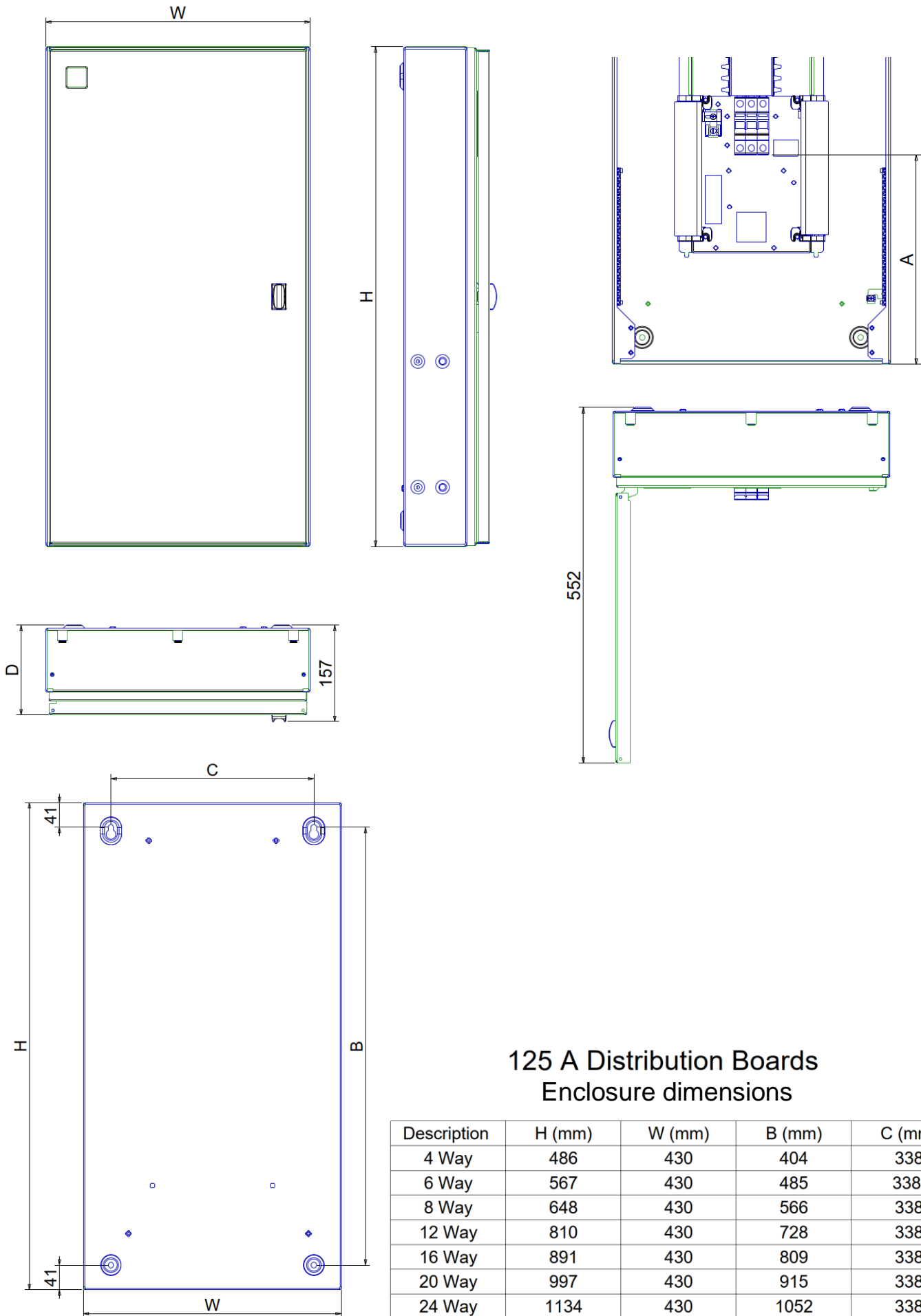


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### 125 A Distribution Boards Enclosure dimensions

Description	H (mm)	W (mm)	B (mm)	C (mm)
4 Way	486	430	404	338
6 Way	567	430	485	338
8 Way	648	430	566	338
12 Way	810	430	728	338
16 Way	891	430	809	338
20 Way	997	430	915	338
24 Way	1134	430	1052	338



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