

ABX 100A 3 PHASE MCB DISTRIBUTION BOARD 230 / 400V AC 50Hz. BS EN 61439-3

IMPORTANT INFORMATION

Proteus distribution units are suitable for indoor use and must be installed by competent personnel in accordance with the requirements of all relevant legislation (including IEE wiring regulations) and the accepted practice in the industry.

TECHNICAL DATA

Distribution Board – BS EN 61439-3

Main Switch - BS EN 60947-3

Miniature Circuit Breakers - BS EN 60898-1

Residual Current Circuit Breaker - BS EN 61008-1

Combined MCB / RCDs (RCBOs) - BS EN 61009-1

Combined RCBO / Arc Fault Device - BS EN 61009-1 EN 62606

BUSBAR RATING:

The busbar is rated 80A continuous, 100A intermittent load.

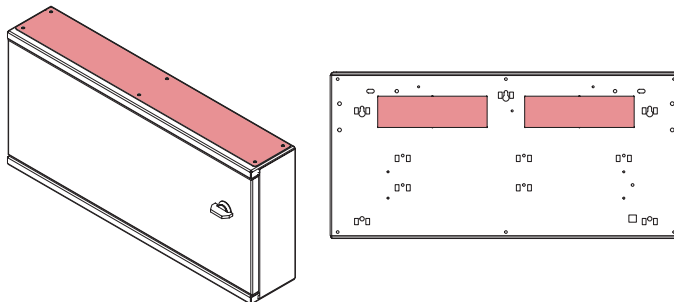
CONDITIONAL SHORT CIRCUIT CAPACITY 16kA

Based on use of a BS1361 type 2 fuse of rating not exceeding 100A and the assumption that short circuits are unlikely to occur in the first 3 meters of cable connected to the over current devices.

CABLE ENTRY FACILITIES:

To facilitate cable entry the top plate is removable.

The cable entry method shall, as far as reasonably practicable, maintain the non-combustible arrangement of the metal enclosure. Good workmanship and proper materials shall be employed by the installer.



With regard to ingress protection (IP), the top horizontal surface of the distribution board after the installation shall provide a degree of protection of at least IP3X. For all other surfaces accessible after the installation a degree of IP2XC shall be provided.

INGRESS PROTECTION REQUIREMENTS

IP2XC - Protection against access with a tool (2.5mm diameter, 100mm long) making contact with hazardous live parts.

IP3X - Protected against solid foreign objects of 2.5mm and greater (small tools/wires).

MCBs:

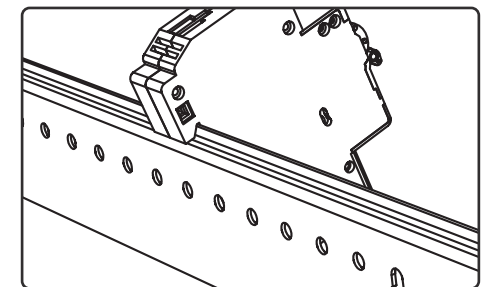
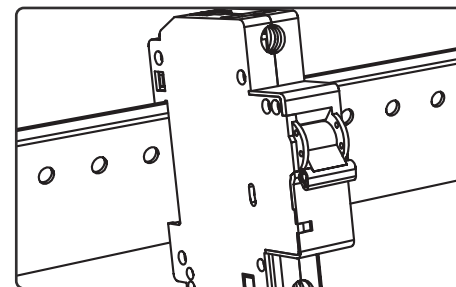
Proteus distribution units are designed to accept the Proteus range of industrial MCB's rated: 2, 4, 6, 10, 16, 20, 25, 32, 40, 50 and 63A (6 & 15kA) to BS EN 60898. Recommended Diversity: 66%.

COMBINED MCB / RCDs (RCBOs):

Unique half DIN feature allows quick and easy installation without busbar removal. Proteus distribution boards can be fitted with single and triple modular RCBO's. The flexible neutral lead should be connected into the appropriate position on the neutral terminal bar. Recommended Diversity: 66%.

FITTING MCBs / RCBOs / AFDDs:

The devices are mounted on a half din rail and busbar. Loosen the lower MCB terminal screw. Hold the MCB onto the din rail so the upper part of the rear moulding fits over the din rail. Tighten the MCB busbar clamp screw. With RCBOs, cut the blue lead to a suitable length and terminate in the neutral bar. Refer to RCBO instruction sheet.



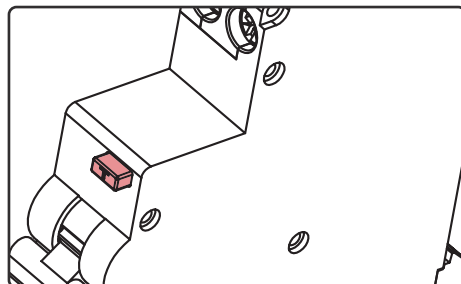
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RCBO / AFDDs:

After installation of a device it is recommended that it is tested in accordance with the instructions supplied with the device.

TESTING THE RCBOs / AFDDs:

Once the unit is installed switch on the device and press the test button. The device should trip. A set of further tests must be carried out as prescribed within the current IEE wiring regulations. The end user must be informed of the locality and use of the test button.



AUXILIARY EQUIPMENT:

Contactors, Time Switches etc (see main catalogue) can only be fitted when using multi-purpose boards (full din-rail section) or alternatively they can be pre-wired at the factory in accordance with customer requirements.

EARTH CONTINUITY:

When the lid of the installed unit has been securely tightened it is necessary to check the earth continuity between box and lid in accordance with the IEE wiring regulations for Electrical Installations.

MAINTENANCE:

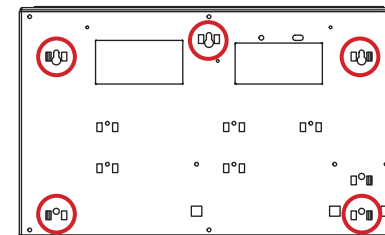
After installation check tightness of all cables and terminal connections, including all factory made connections. We recommend all connections are checked for tightness in accordance with BS 7671.

TORQUE VALUES:

CONNECTION TERMINALS	MAXIMUM CABLE mm ²	TORQUE (Nm)
100A Isolator (Main switch)	50	2.5
MCBs	25	2.5
RCBOs (Line / Load)	16 (Load)	2.5 / 1.5
AFDDs (Line / Load)	16 (Load)	2.5 / 1.5
RCD (Main switch)	35	2
Earth / Neutral Terminals	16	1.5
SPD	16 (100A bd)	3

MOUNTING:

This distribution board is intended for horizontal or vertical mount on a vertical surface fixing using 3x rear keyhole slots (ABX2 & ABX2SPD only have 1) suitable for No.10 screws and 2x fixing holes.



GUARANTEE:

This distribution board is offered with a 12 month guarantee against manufacture or defective material. Should the product become defective, please contact our technical support team on the number below and we will assist you.



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