

IP66 ALUMINIUM ENCLOSURE

Instruction Leaflet DOC: IP66ENC202608



FuseBox®

1 Technical information

- 1a IP66 enclosure must be installed by a qualified electrician in accordance with the current IET Wiring Regulations BS 7671.
- 1b Total load must **not exceed** the rating of the incoming isolator or any additional limitation.
- 1c Total sum of the individual MCBs may exceed this value where there is appropriate diversity in the installation.
- 1d The Consumer Unit and associated components have been manufactured to the following specifications.
- 1e 20mm Knockouts on sides and to the rear must be drilled out to prevent damage to the enclosure.
- 1f Rubber caps and plugs must be fitted as supplied in accessory pack to maintain IP66 rating.

Standards (TABLE 1)

Device	Standard
Enclosure	IEC/BS EN 62208
Consumer Unit	IEC/BS EN 61439-3
IP RATING	IP66 (rubber caps and plugs must be fitted as supplied in accessory pack)
Main Switch	IEC/BS EN 60947-3
RCD	IEC/BS EN 61008-1
MCB	IEC/BS EN 60898-1
RCBO	IEC/BS EN 61009-1
SPD	IEC/BS EN 61643-11(Type2)

Torque Settings (TABLE 2)

Device	Max Cable Capacity	Recommended Torque
RCD	35mm ²	2.5Nm
MCB	16mm ²	2.5Nm
MAIN SWITCH	35mm ²	2.5Nm
RCBO (Lin/L+Nout)	16/10mm ²	2.5/1.2Nm
RCBO MINI (Lin/L+Nout)	16/10mm ²	2.5/1.2Nm
AFDD (Lin/L+Nout)	16/10mm ²	2.5/1.2Nm
SPD (L/N+PE)	16/10mm ²	2.5/1.2Nm
Earth+Neutral Terminals	16mm ²	2.0Nm

- 1g Ambient Temperature: MCBs are calibrated at 30°C according to the calibration temperature requirements of EN60898. At other temperatures the following rating factors should be used: At 60°C 0.85 At 20°C 1.0 At 0°C 1.15
- 1h **Adjacent thermal-magnetic MCBs should not be continuously loaded at their nominal rated currents when mounted in enclosures.** We recommend a 60% de-rating factor is applied to the MCBs nominal rated current where it is intended to load the MCBs continuously.

2 Enclosure Mounting

- 2a Remove front cover (4x captive screws).
- 2b Drill out **minimum** appropriate **knockouts**. **To maintain the IP66 rating and fire containment of the enclosure suitable glands must be used.**
- 2c Fix base to wall using screws and rawl plugs as appropriate **and remove any debris from inside the enclosure.**
- 2d Adjust to the square.
- 2e Route incoming cables to desired positions.

3 Connection of Tails

- 3a Cut and dress the main incoming conductors and route via the tail clamp.
- 3b Connect into the appropriate isolator terminals **L (1) & N (3)** RCD and Main switch and earth terminal bar.
- 3c Torque all connections (TABLE 2).

4 Connections

- 4a Cut, dress, and connect circuit conductors to appropriate MCB/RCBO/AFDD neutral and earth terminals.
- 4b ALL CONNECTIONS (including factory made connections) MUST BE TORQUED (TABLE 2).
- 4c **Make sure that each earth and neutral outgoing circuit is correctly made to the corresponding numbered terminals as this will ensure final testing and fault finding is easier.**

5 Circuit Identification

- 5a All circuits must be clearly labelled on the front cover. All unused ways must be filled using a din rail module blank (ADRB).

6 Operation of the TEST button on RCD

- 6a When newly fitted systems do not trip on the TEST button of the RCD or using the RCD tester the problem is normally caused by an earth to neutral fault on the circuit (PME supply).

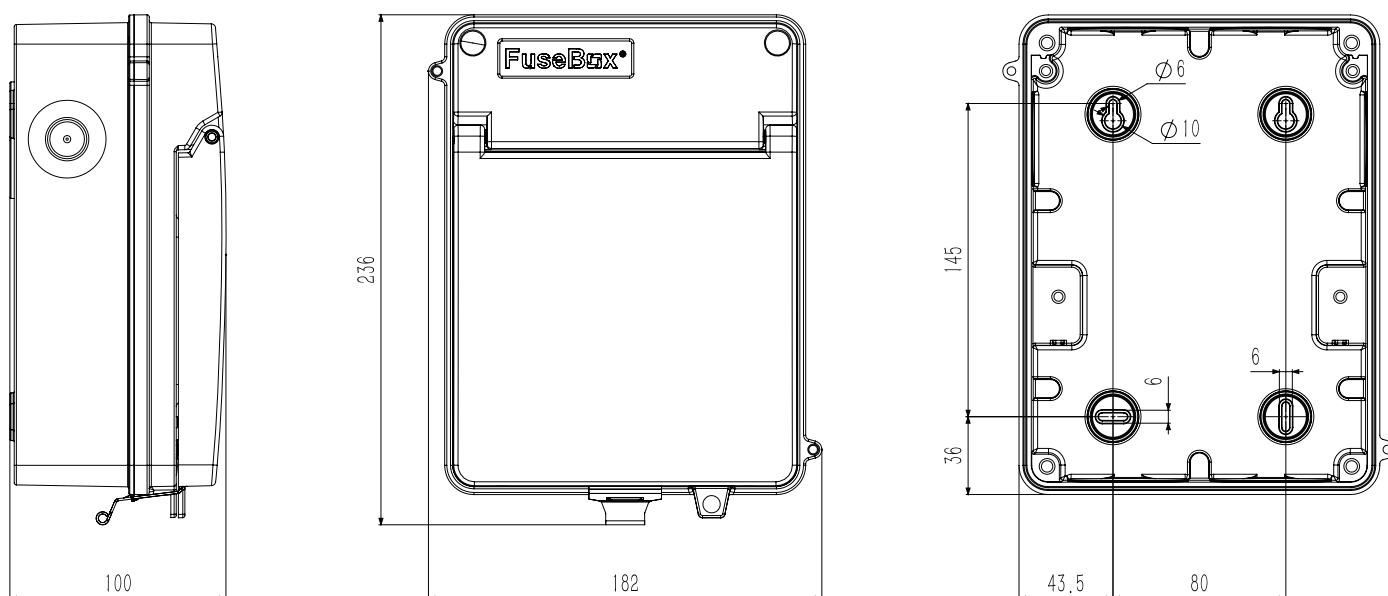
7 Testing

- 7a After completion of the installation, it must be tested in accordance with the latest edition of the IET Wiring Regulations for Electrical Installations (BS 7671).

**Before fitting the front cover, check all connections including factory made connections are TORQUED.
Loose connections can cause fires!!!!**

After installation and testing of this product it is essential that the INSTRUCTION LEAFLET is available for reference

9 Dimensions



Please note:

- Knockouts on sides, top, bottom and to the rear must be drilled out to prevent damage to the enclosure.
- Rubber caps and plugs must be fitted as supplied in accessory pack to maintain IP66 rating.

Environment

WASTE ELECTRICAL PRODUCTS SHOULD NOT BE DISPOSED OF IN HOUSEHOLD WASTE. CONTACT YOUR RETAILER OR LOCAL AUTHORITY FOR RECYCLING INFORMATION



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