# Unidrive M600, M700, M800 Size 3 Through-panel Mounting Installation Sheet

## 1 Safety information

**Follow the instructions**
The mechanical and electrical installation instructions must be adhered to. Any questions or doubt should be referred to the supplier of the equipment. It is the responsibility of the owner or user to ensure that the installation of the drive and any external option unit, and the way in which they are operated and maintained, comply with the requirements of the Health and Safety at Work Act in the United Kingdom or applicable legislation and regulations and codes of practice in the country in which the equipment is used.

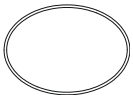
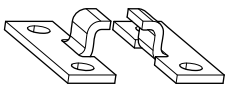
**Competence of the installer**
The drive must be installed by qualified personnel who are familiar with the requirements for safety and EMC. The installer is responsible for ensuring that the end product or system complies with all the relevant laws in the country where it is to be used.

## 2 Introduction

This document covers through-panel mounting instructions for Unidrive M600, M700, M800 Size 3 drives. The standard drive is rated to IP20 pollution degree 2 (dry, non-conductive contamination only, NEMA 1), however it is possible to configure the device to achieve IP65 rating (NEMA 12). This is done by sealing the heat sink vent at the rear of the heatsink by installing the high IP insert as illustrated in Figure 3-1. Some current derating is required, and reference should be made to the drive's User Guide for current derating information.

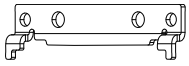
**The following items are supplied in the kit bag:**

**Table 2-1 Contents of the bag (CT Part Number: 3470-0053-00)**

| Description | Image | Qty |
|---|---|---|
| Through panel mounting gasket |  | x 1 |
| Through panel securing brackets |  | x 2 |
| High IP insert |  | x 1 |
| Through panel mounting installation sheet |  | x 1 |

**The following items are included in the kit boxes 3470-0038 and 3470-0042, either of which can be supplied with the drive.**

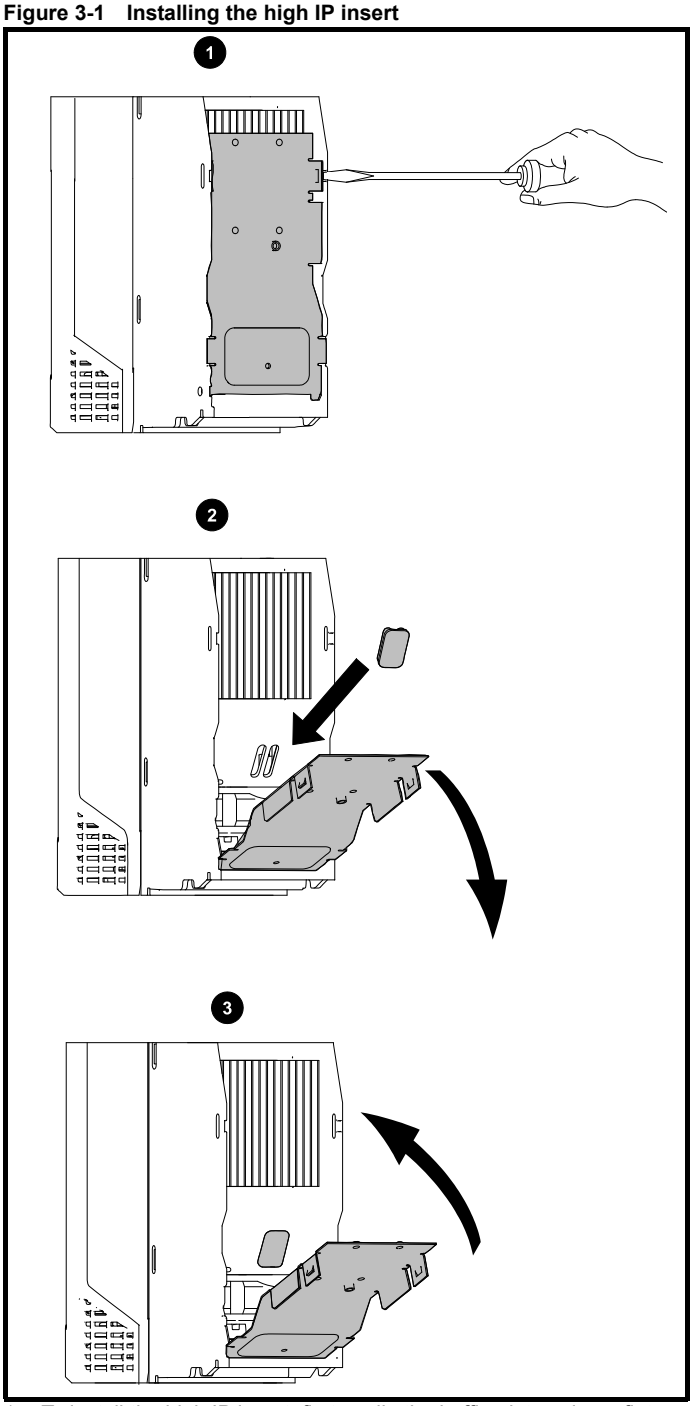
**Table 2-2 Additional items required**

| Description | Image | Qty |
|---|---|---|
| Frame 3 mounting brackets |  | x 2 |

## 3 Instructions

### 3.1 Installing the high IP insert

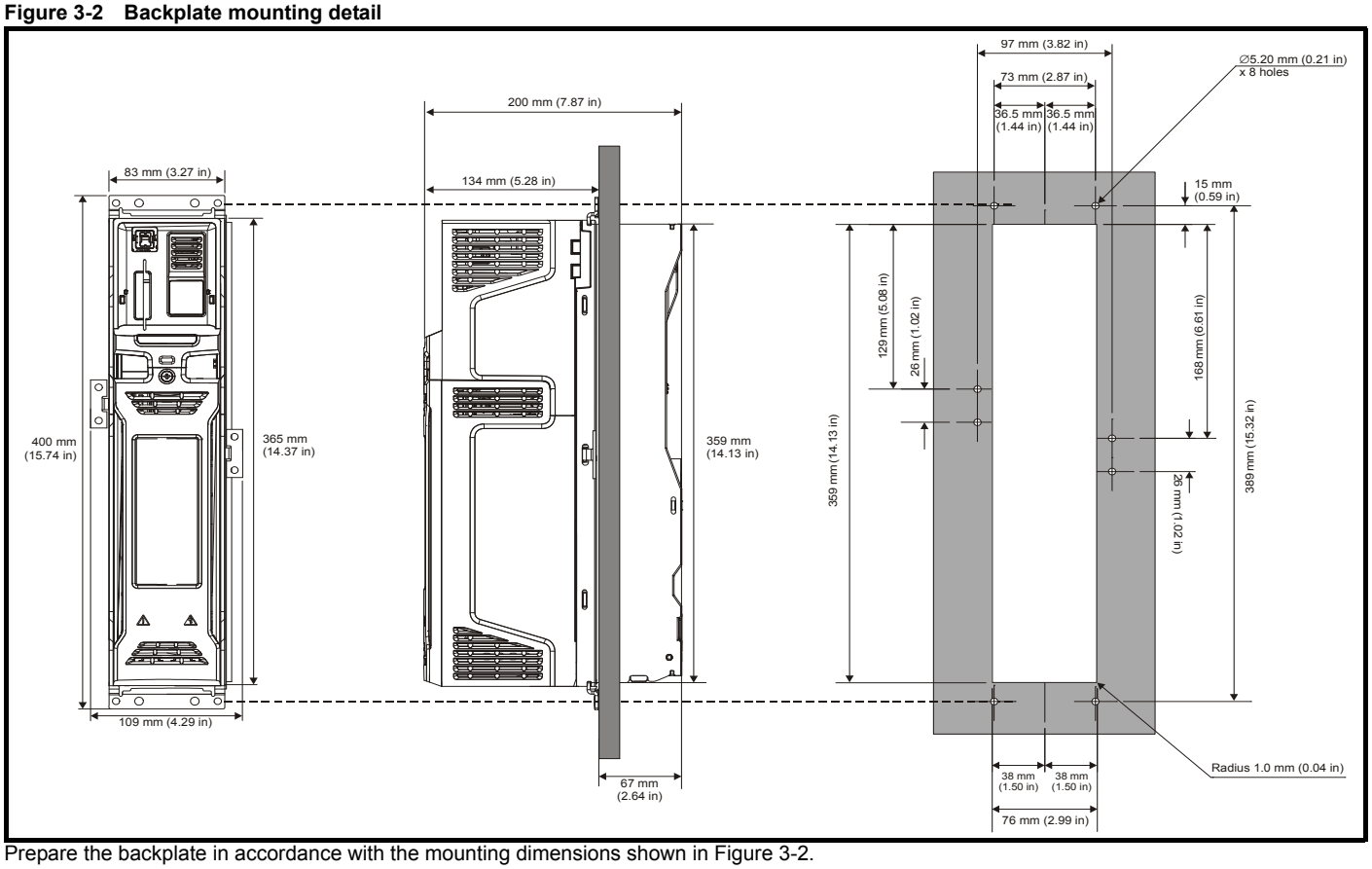
**Figure 3-1 Installing the high IP insert**




1. To install the high IP insert, first unclip the baffle plate using a flat bladed screwdriver inserted under the slot as shown in Figure 3-1 (1).
2. Pull the hinged baffle plate down to expose the ventilation hole. Install the high IP insert into the ventilation hole in the heatsink (2). Ensure the high IP insert is securely installed by pressing it firmly into place.
3. Close the hinged baffle plate by rotating it upwards until the clips on the baffle plate are secure within the slots in the drive chassis as shown in (3).

## 3.2 Preparing the backplate

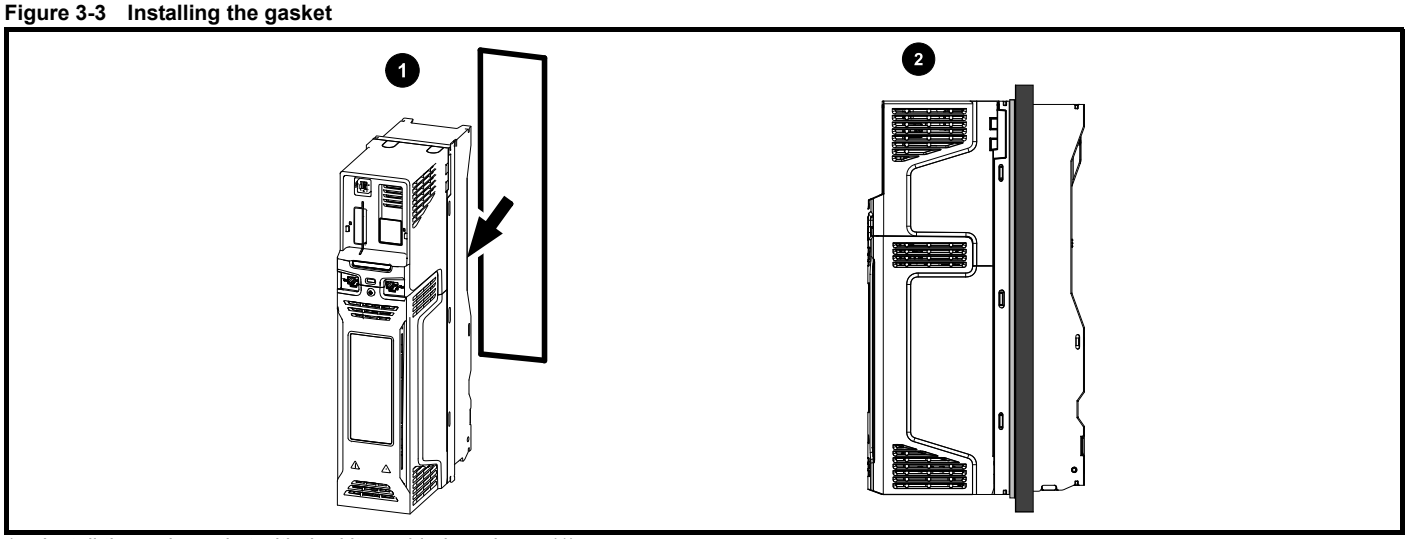
**Figure 3-2 Backplate mounting detail**




Prepare the backplate in accordance with the mounting dimensions shown in Figure 3-2.

## 3.3 Preparing for installation

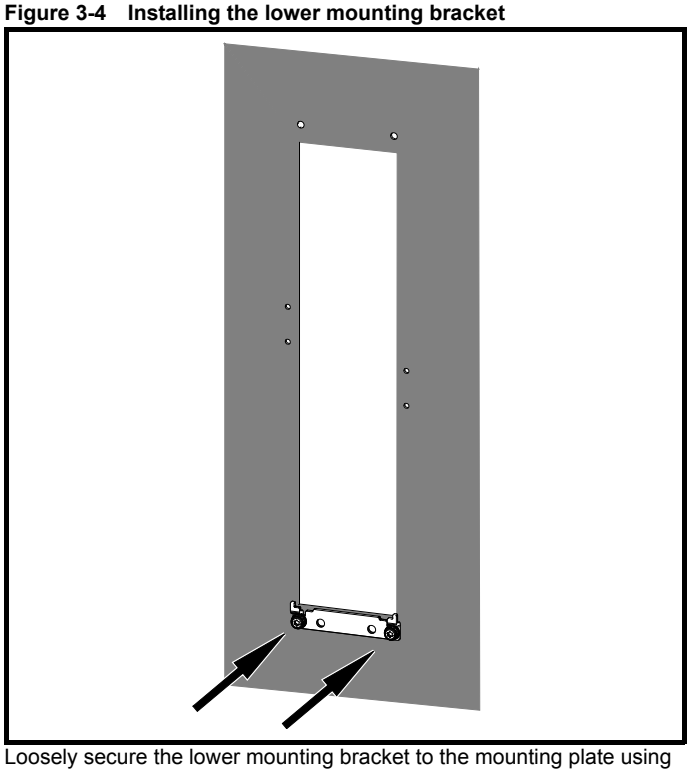
**Figure 3-3 Installing the gasket**




1. Install the main gasket with the kit provided as shown (1).
2. The image on the right shows the assembled drive and gasket (2).

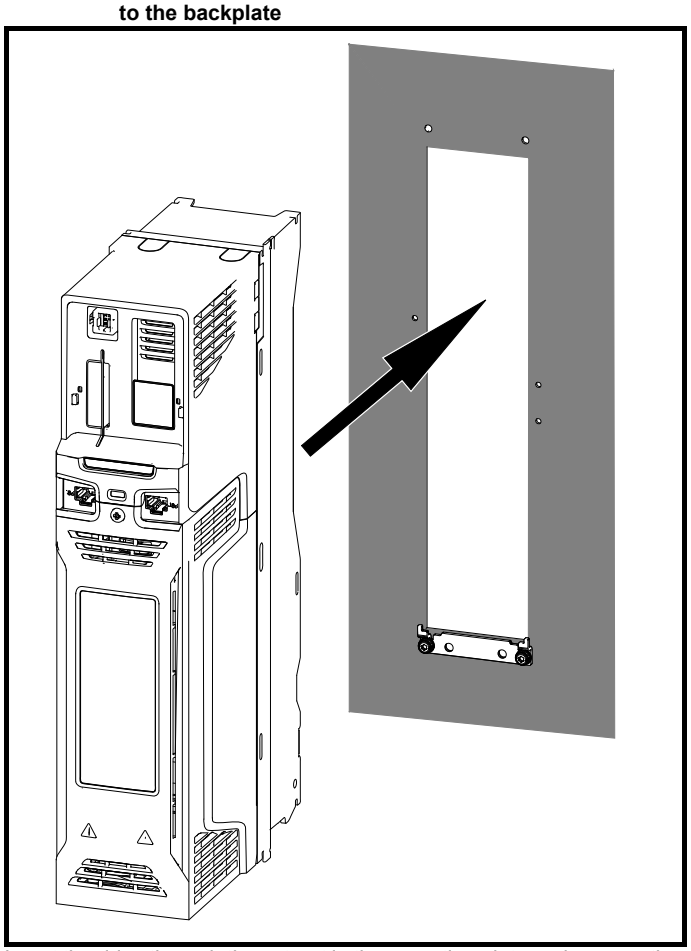
## 3.4 Installing the drive

**Figure 3-4 Installing the lower mounting bracket**



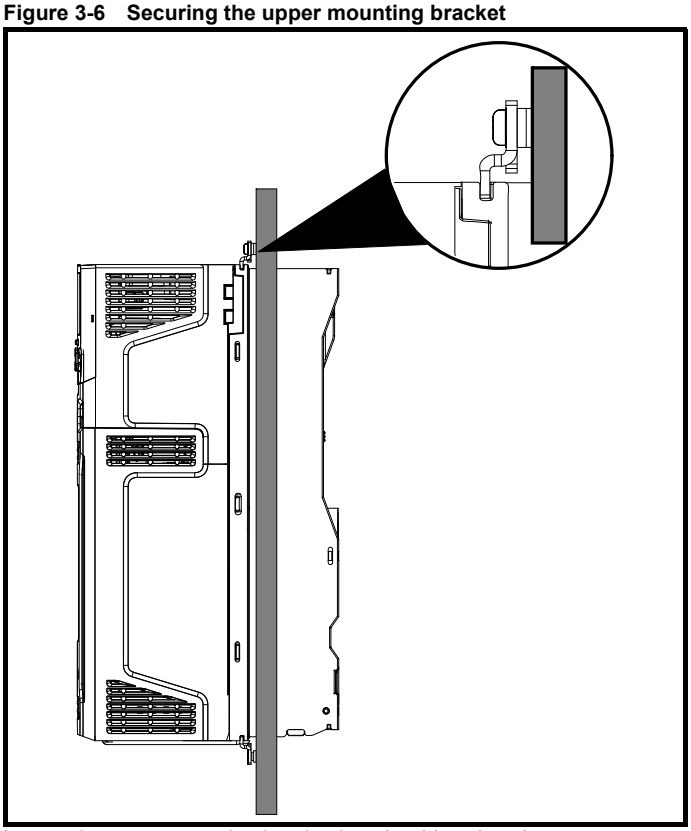
Loosely secure the lower mounting bracket to the mounting plate using suitable M5 fasteners as shown in Figure 3-4.

**Figure 3-5 Inserting the drive through the backplate and securing to the backplate**



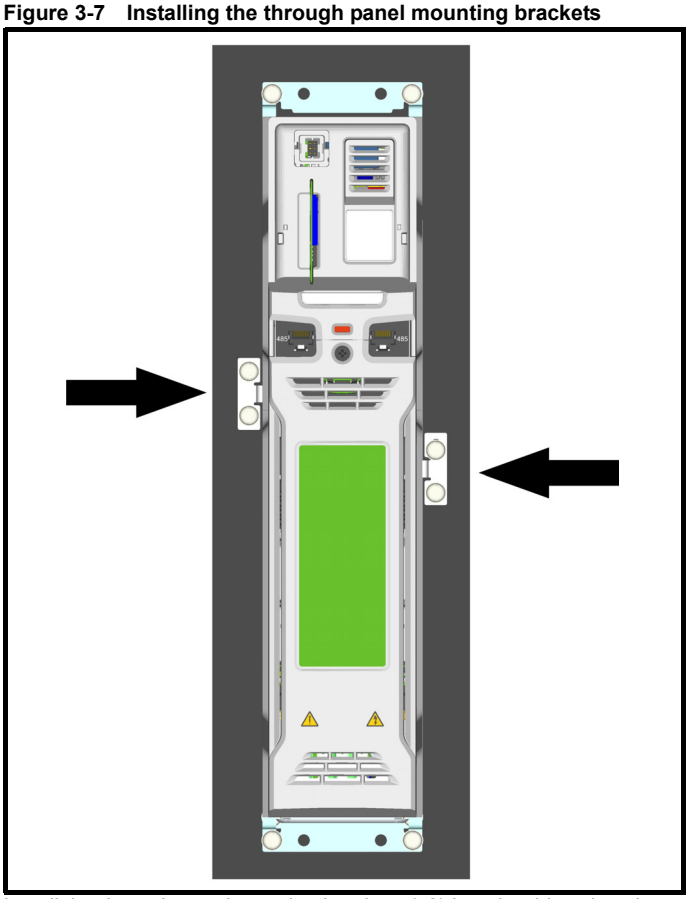
Insert the drive through the cut-out in the mounting plate and engage the drive chassis mounting slots on the lower mounting bracket ensuring that the drive is supported at all times until secured firmly.

**Figure 3-6 Securing the upper mounting bracket**



Locate the upper mounting bracket into the drive chassis upper mounting slots and secure the drive to the mounting bracket using suitable M5 fasteners. Make sure the M5 fasteners are fully secured at the top and bottom of the mounting plate before proceeding further.

**Figure 3-7 Installing the through panel mounting brackets**



Install the through panel securing brackets (x2) into the drive chassis, and secure them to the backplate using suitable M5 fasteners. Check to be sure that the gasket has not become trapped under the mounting brackets before fully tightening the M5 fasteners.