

Contents

1. Mounting Instructions	3
Introduction	3
Preparation	3
Preparing the panel cut-out and fixing holes	3
Assembly	5
Assembly of mounting flange to drive	5

1

1. Mounting Instructions

1.1. Introduction

1.1.1. Introduction

The Panel Through Mount Kit may be used where the heatsink can be cooled by an external air stream, or where there is a wish to use a separate air duct. The electronics are sealed from the external air by use of the mounting flange and sealing gasket, whereby the electronics are housed within the control panel, whilst the heatsink protrudes through the panel.

The gasket offers a dust and water tight seal to IP55.

The Kit is available in 5 sizes to suit frames A5, B1, B2, C1 and C2.

Order Code: A5 Enclosure – 130B1028

Order Code: B1 Enclosure – 130B1046

Order Code: B2 Enclosure – 130B1047

Order Code: C1 Enclosure – 130B1048

Order Code: C2 Enclosure - 130B1049

1.2. Preparation

1.2.1. Preparing the panel cut-out and fixing holes

First stage of installation is to make the cut-out and fixing holes in the required position of the panel in accordance with the following:

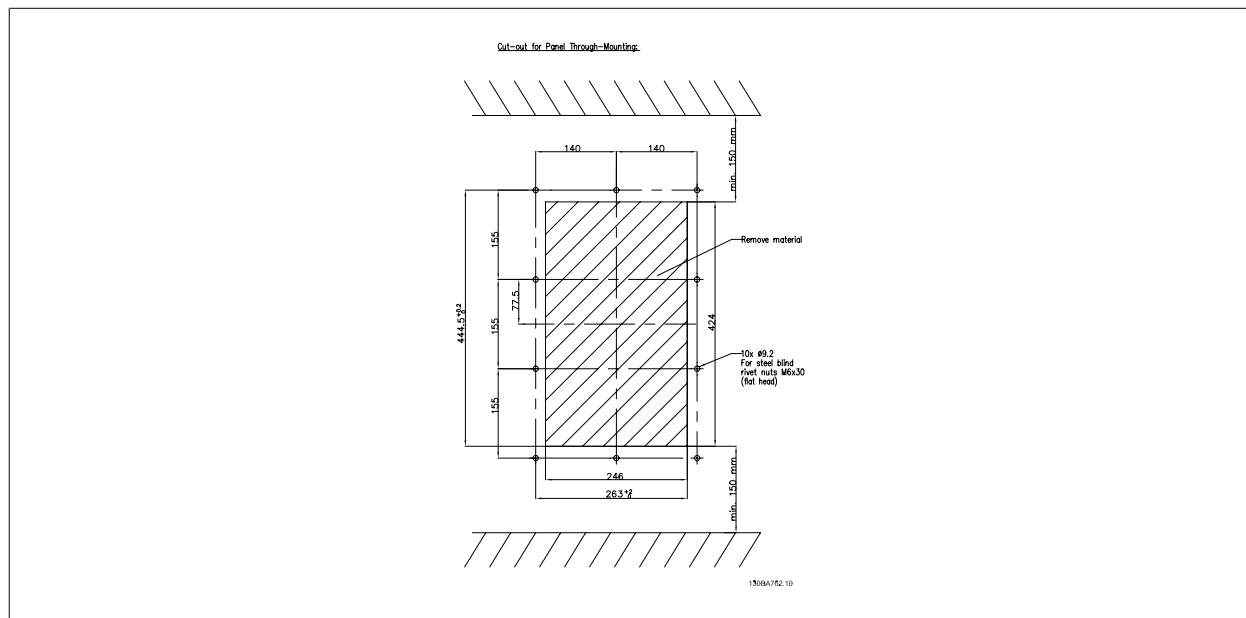


Illustration 1.1: A5 Enclosure

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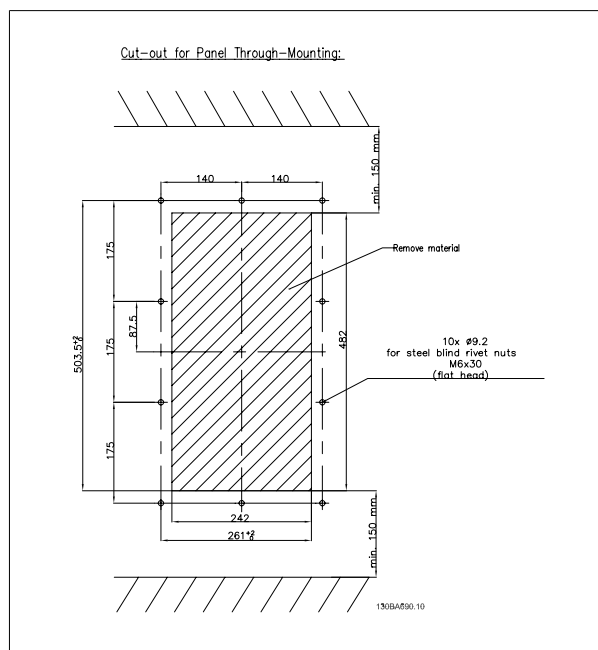


Illustration 1.2: B1 Enclosure

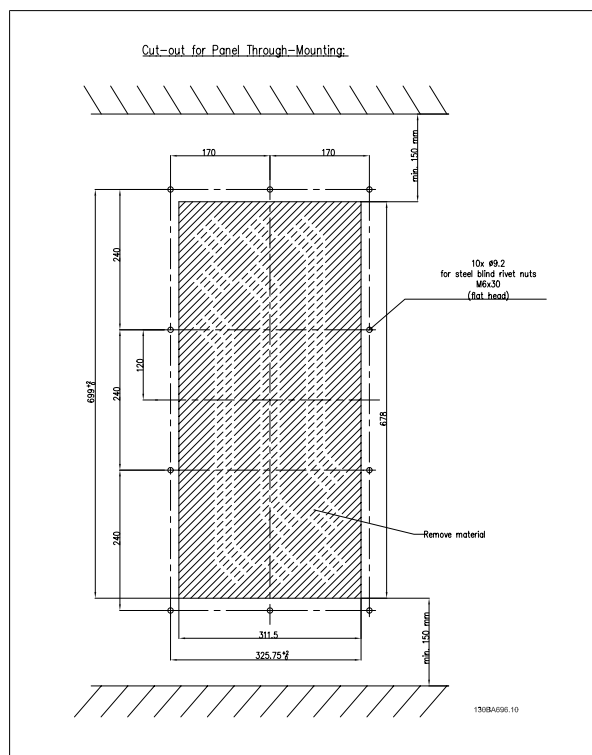


Illustration 1.4: C1 Enclosure

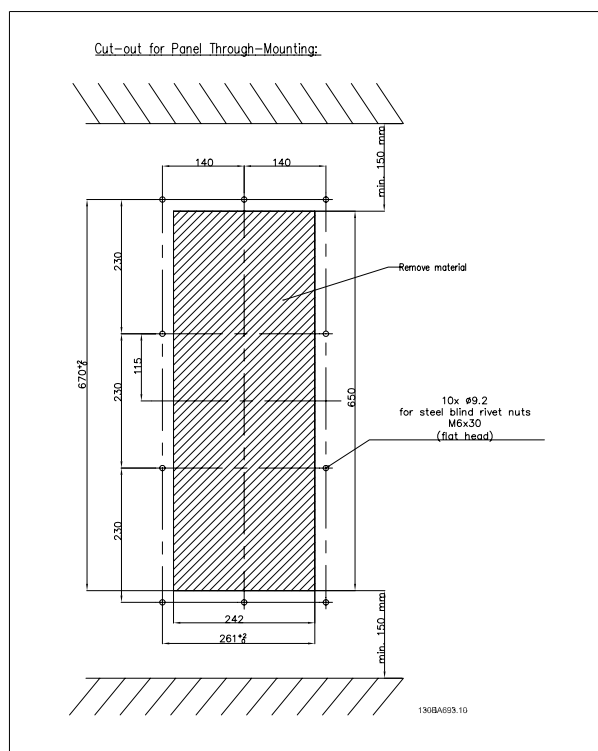


Illustration 1.3: B2 Enclosure

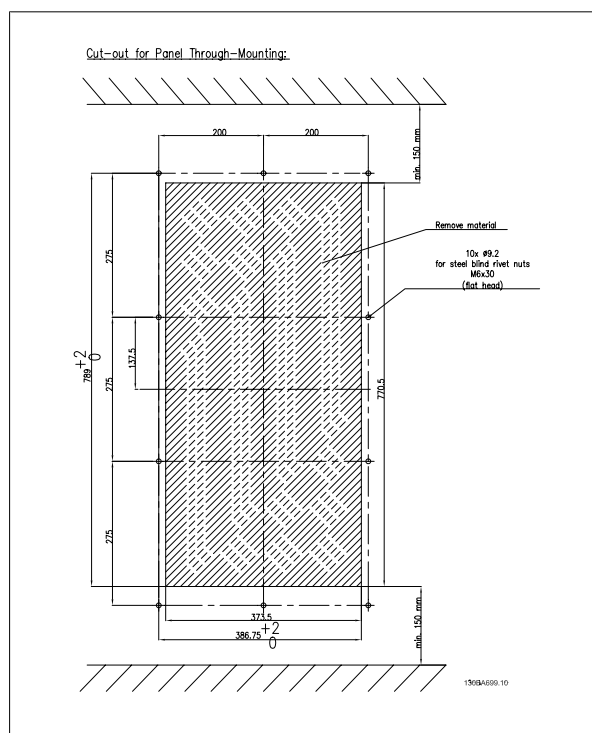


Illustration 1.5: C2 Enclosure



Care should be taken to ensure the cut-out dimensions are accurately followed and that sharp edges are removed.

1.3. Assembly

1.3.1. Assembly of mounting flange to drive

The self-adhesive sealing strips should be cut to length from the roll which is included in the kit. Particular care should be taken at the corners to ensure the strips are butted up close together to ensure a good seal.

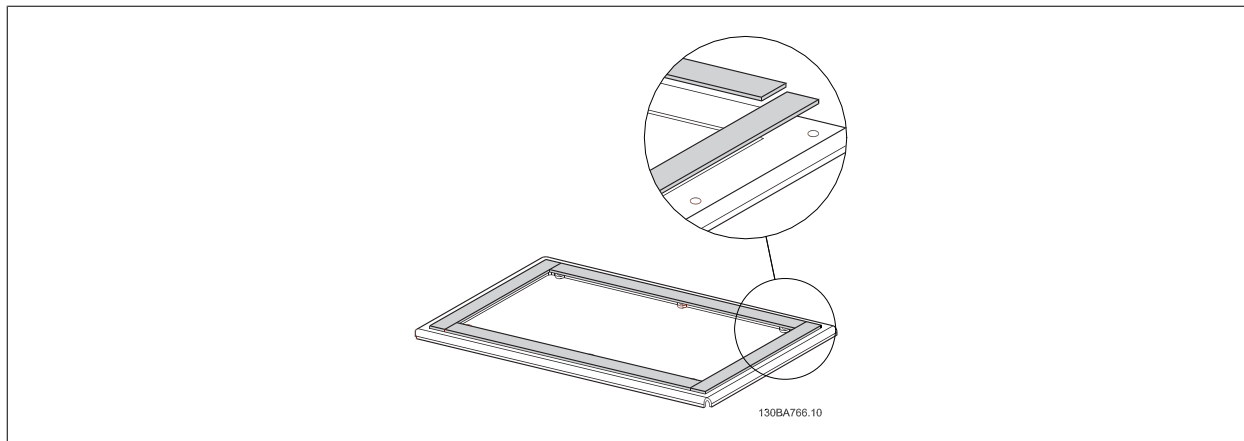


Illustration 1.6: Fitting of sealing strips

The flange should now be assembled to the drive using the supplied screws and captive washers. The screws should be tightened to a torque of 2.2 – 2.5 NM, using a Torx-20 tool.

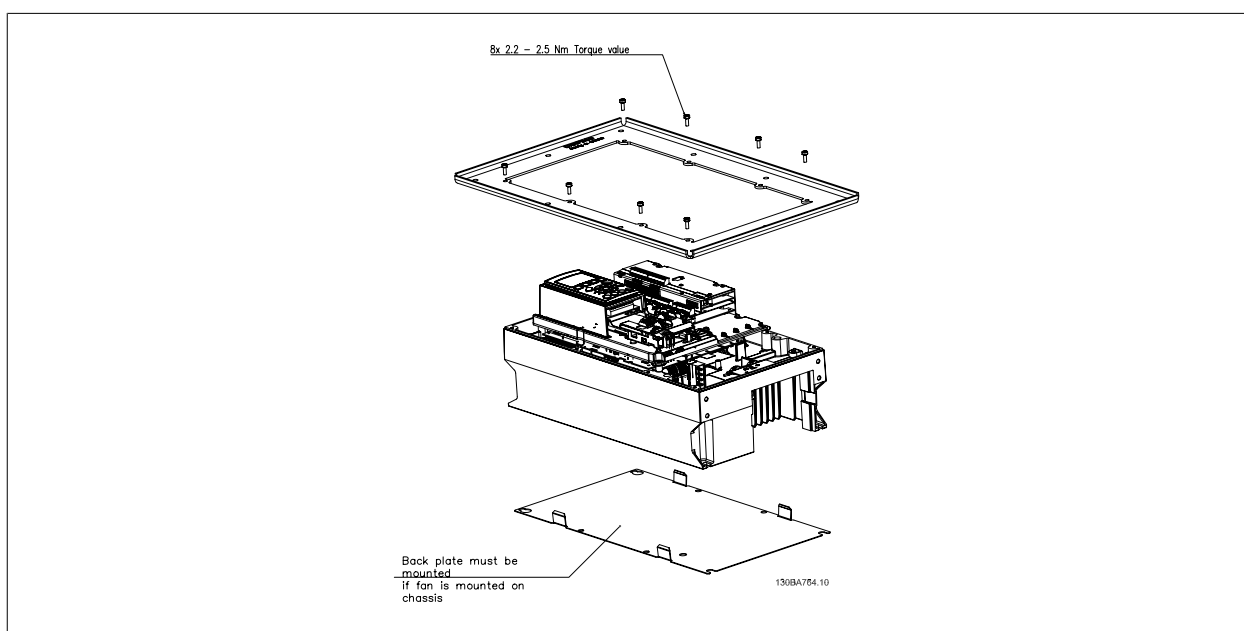


Illustration 1.7: A5 Enclosure

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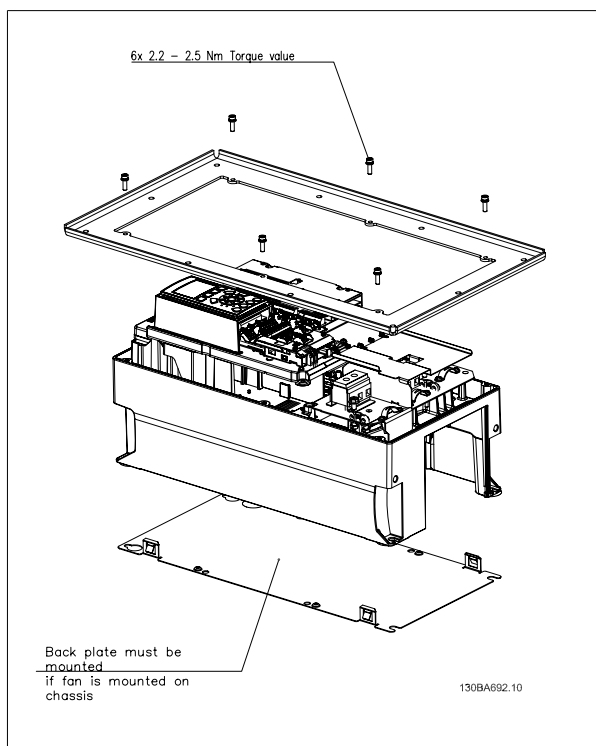


Illustration 1.8: B1 Enclosure

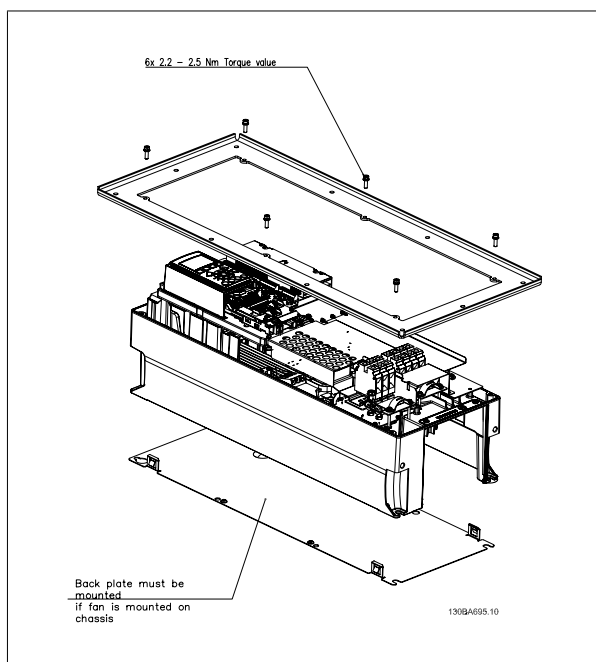


Illustration 1.9: B2 Enclosure

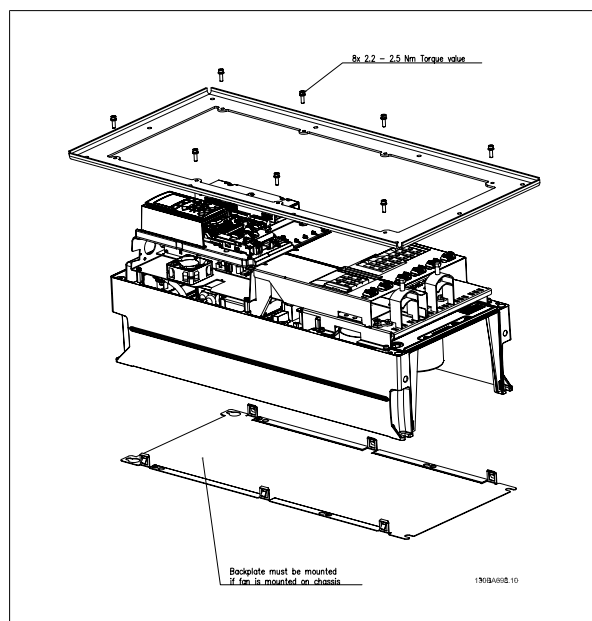


Illustration 1.10: C1 Enclosure

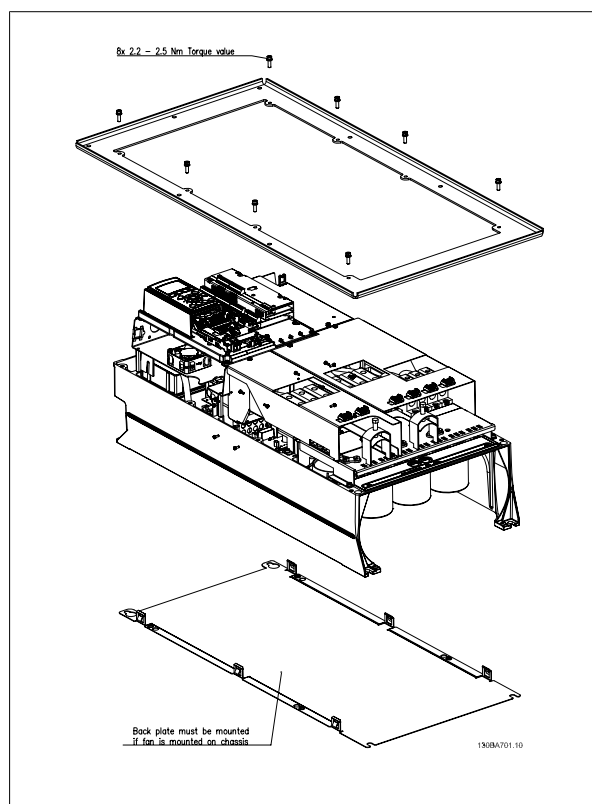


Illustration 1.11: C2 Enclosure

**NB!**

If the drive is to be mounted through the front of the panel, the flange must be assembled so that the raised edge of the flange is uppermost (towards the electronics). If the drive is to be mounted from the rear of the panel, then the flange should be fitted with the raised edge facing away from the electronics.

Next the heatsink MCF108 backplate, which must be ordered separately, should be attached to the rear of the heatsink. Without this backplate, cooling effect will be drastically reduced.

MCF 108 Backplate Ordering Codes.

A5 Enclosure: 130B1098

B1 Enclosure: 130B3383

B2 Enclosure: 130B3397

C1 Enclosure: 130B3910

C2 Enclosure: 130B3911

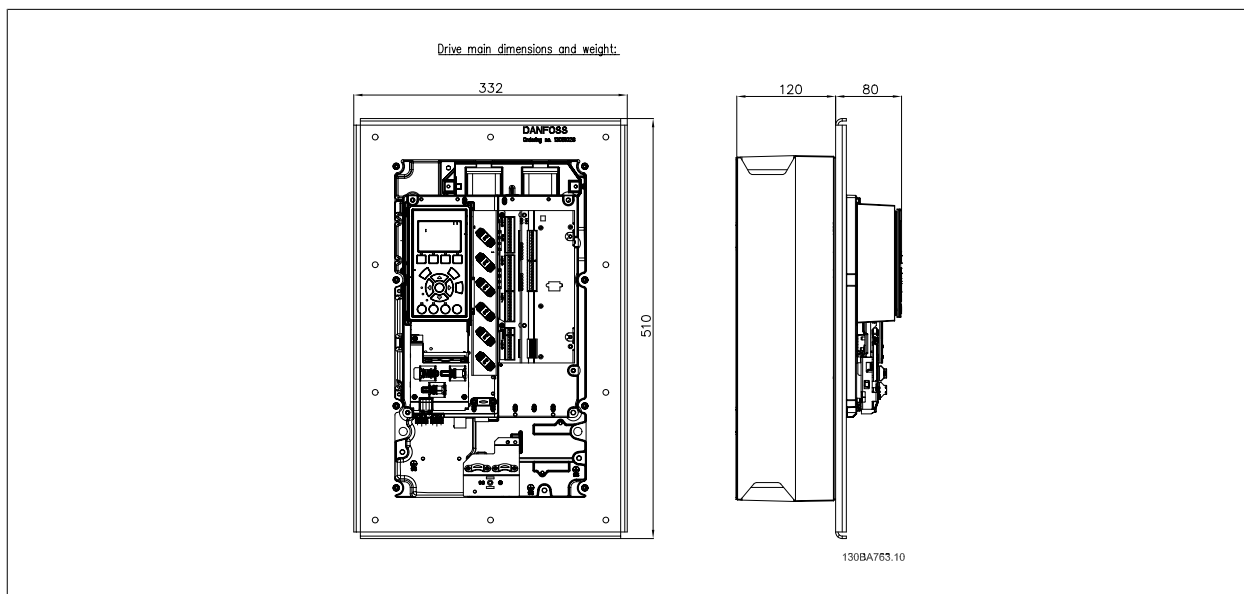


Illustration 1.12: A5 Enclosure

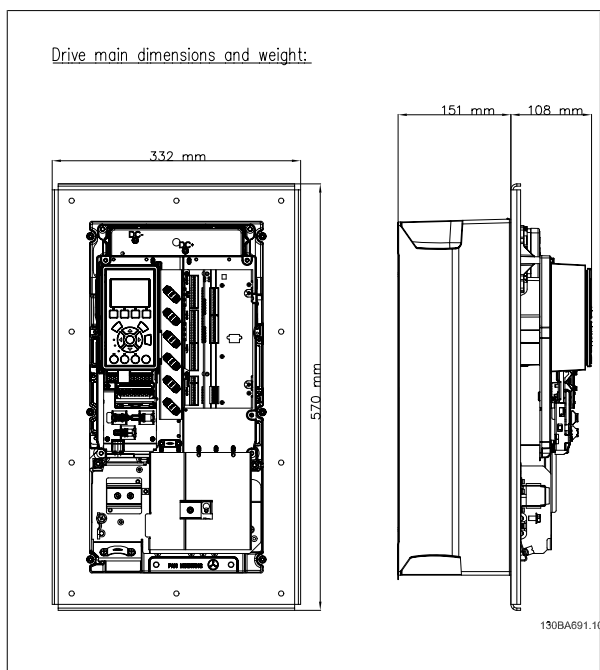


Illustration 1.13: B1 Enclosure

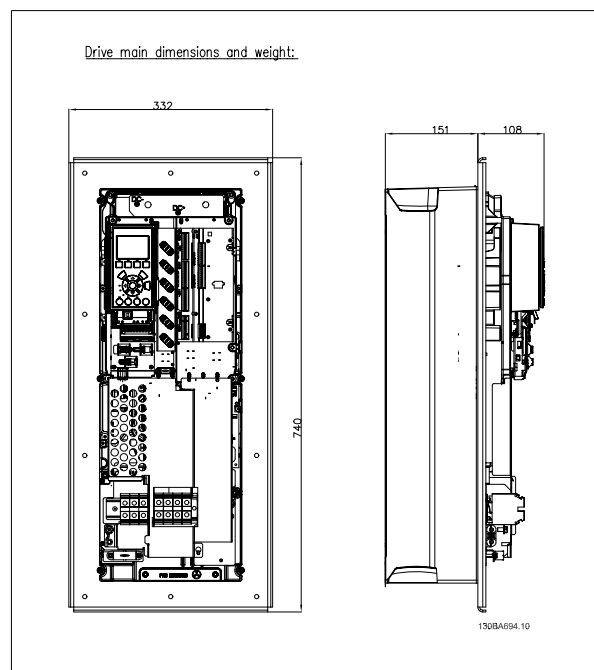


Illustration 1.14: B2 Enclosure

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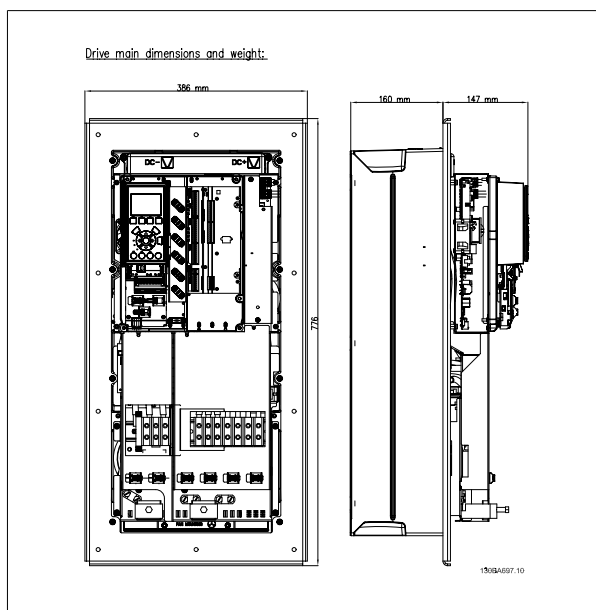


Illustration 1.15: C1 Enclosure

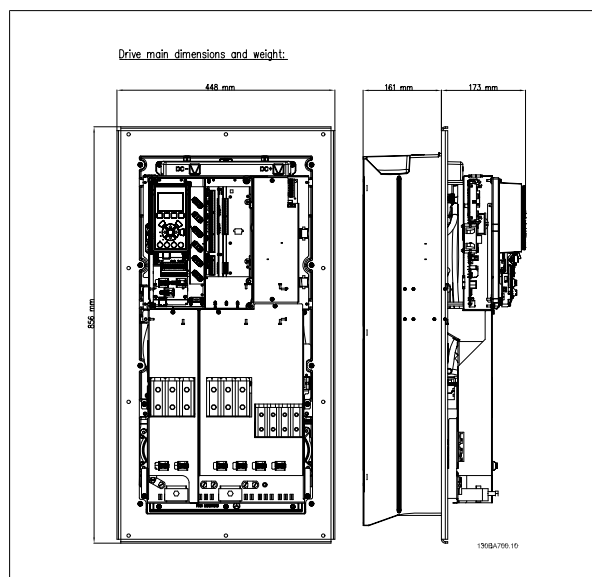


Illustration 1.16: C2 Enclosure

Once the flange has been assembled to the drive, the unit can be presented to the cut-out in the panel. The heatsink can be carefully positioned through the cut-out, taking care not to damage the gasket and the unit can be secured using suitable nuts and bolts through the fixing holes.

This completes mechanical installation of the drive using the Panel Through Mount Kit.