

Cat No.: IDV16-X3-1

DV Series

Advanced Function General-purpose Inverter

Panel Through Mount Kit

Contents

1 Mounting Instructions	3
Preparation	3
Preparing the Panel Cut-Out and Fixing Holes	3
Assembly	9
Assembly of Mounting Flange to Drive	9

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1 Mounting Instructions

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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.

**NB!**

Back plate and fan must be mounted at all times, when drive is put in an air duct.

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

The ambient temperature, on both the control panel side, as well as inside the duct must not exceed max. amb. temp. for the drive.

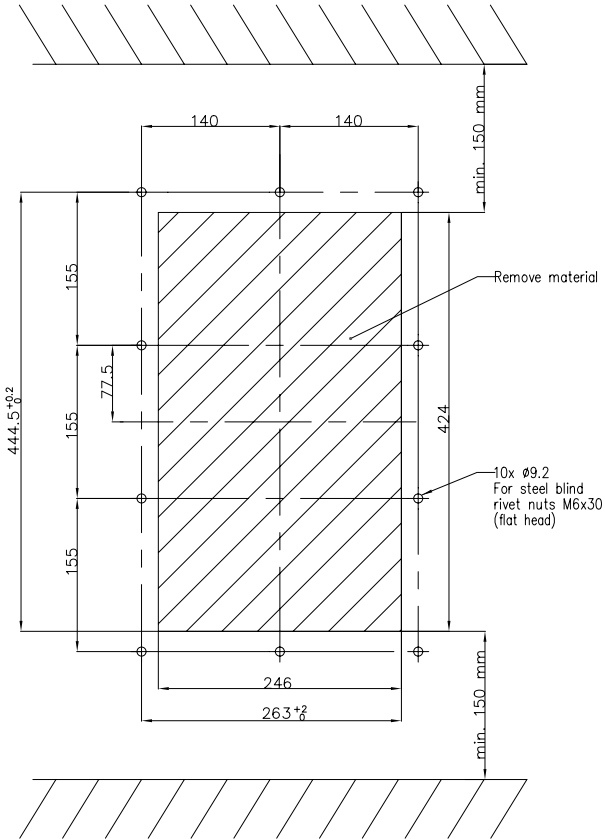
1.2 Preparation

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:

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Cut-out for Panel Through-Mounting:



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Illustration 1.1: A5 Enclosure

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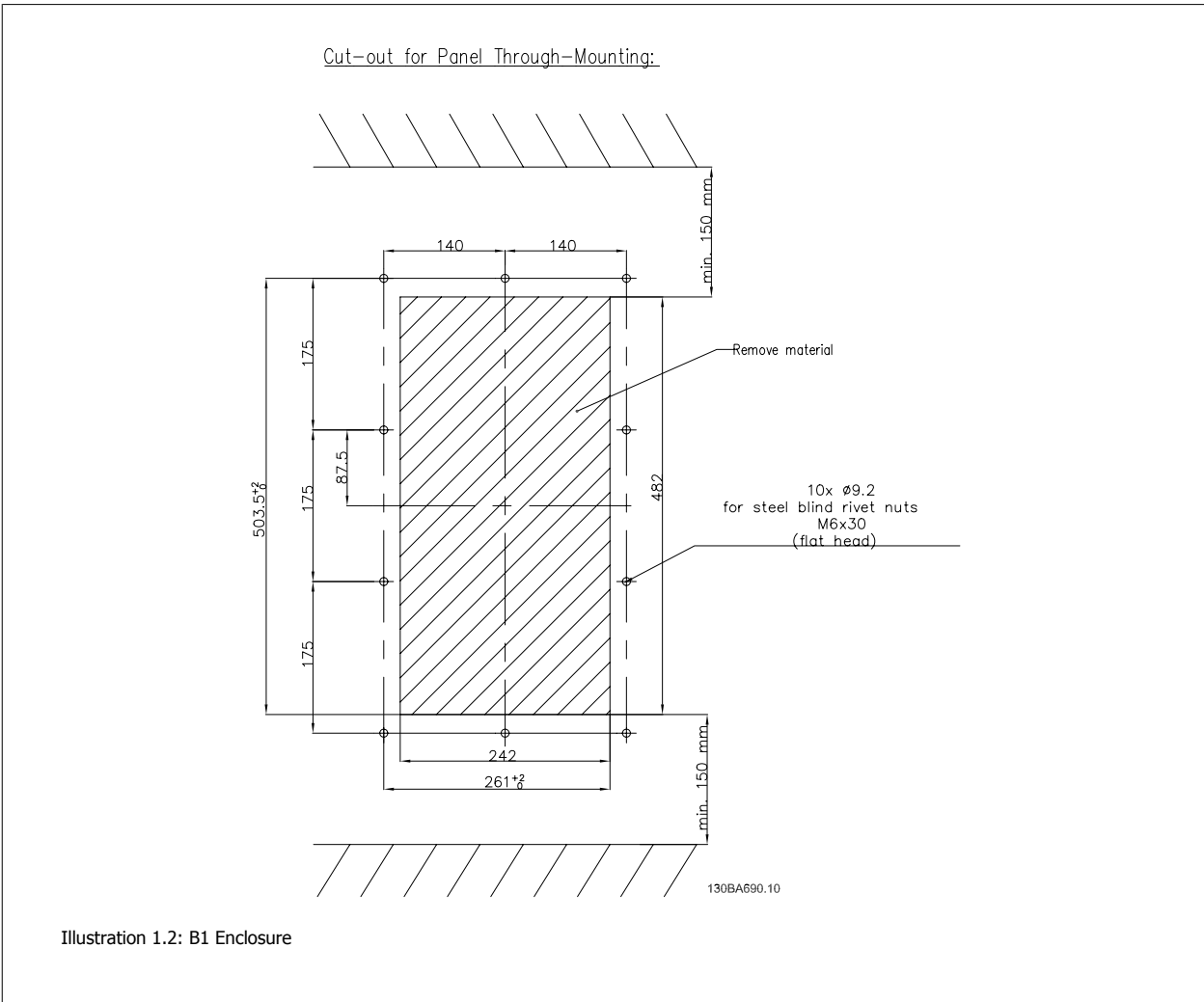


Illustration 1.2: B1 Enclosure

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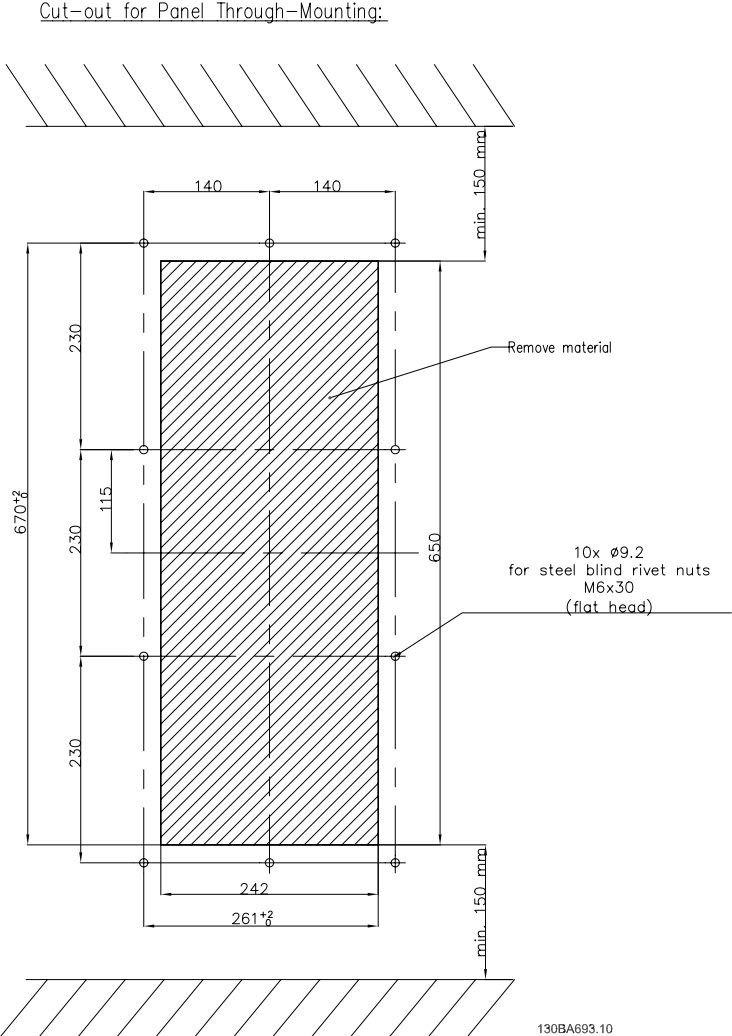


Illustration 1.3: B2 Enclosure

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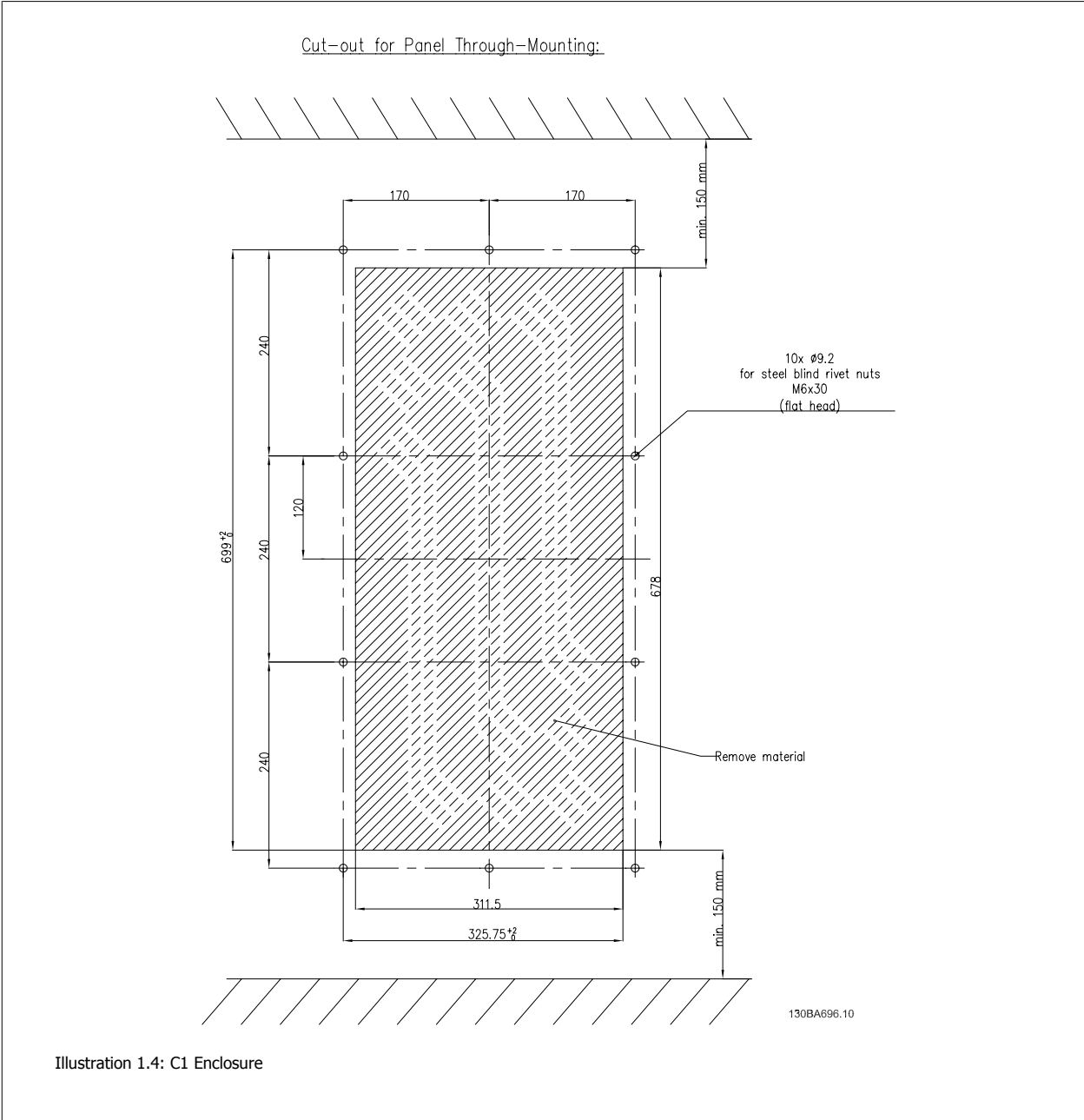


Illustration 1.4: C1 Enclosure

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Cut-out for Panel Through-Mounting:

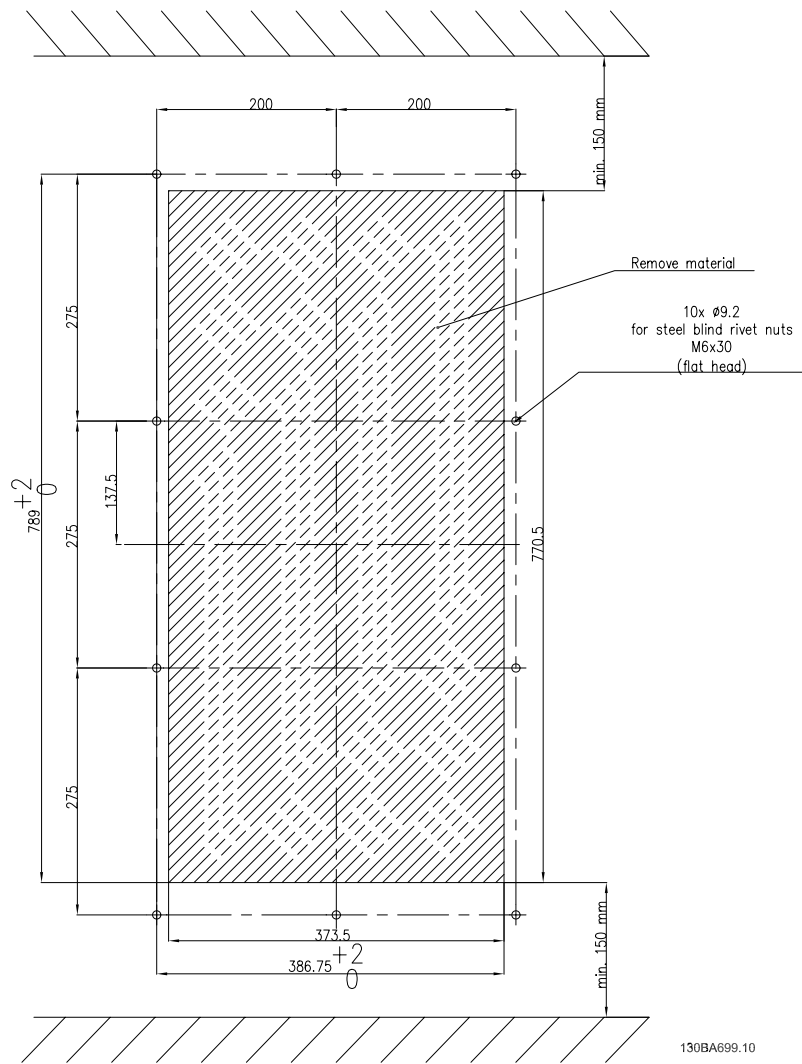


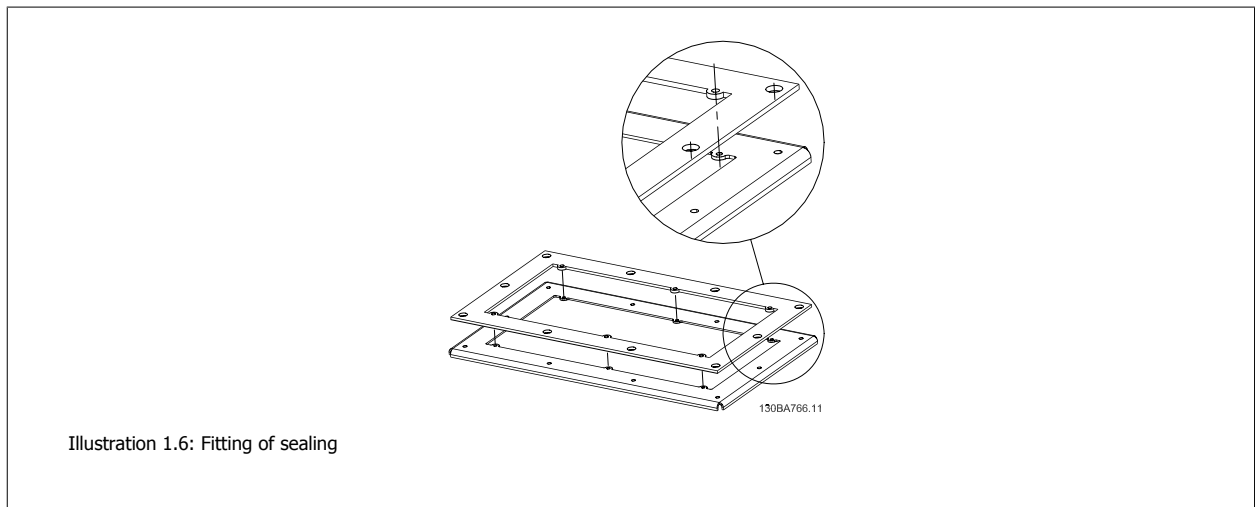
Illustration 1.5: C2 Enclosure



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



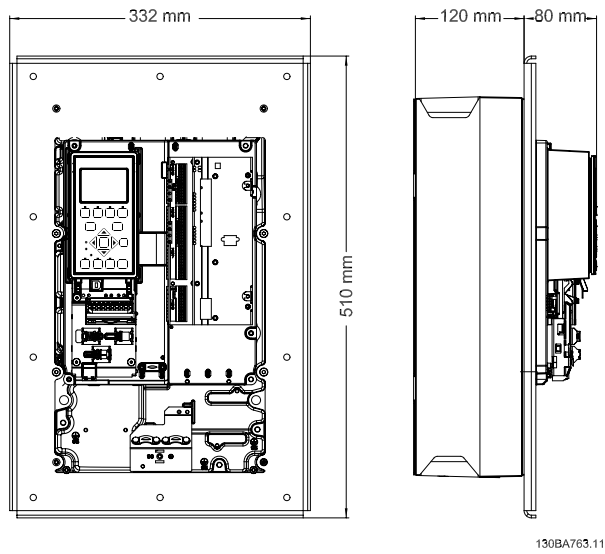
The flange should now be assembled to the drive using the supplied screws and captive washers. The screws should be tightened to a torque of 2.2 – 2.5 NM, using a Torx-20 tool.

**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.

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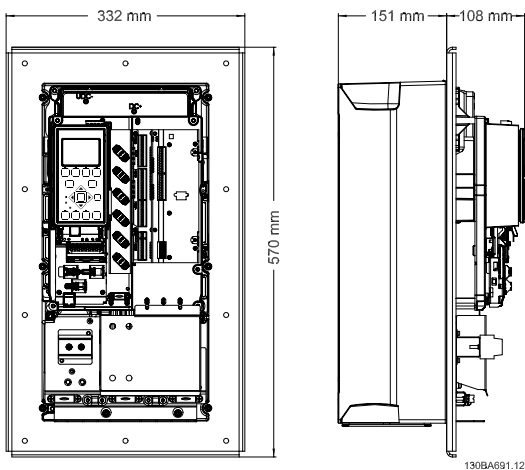
Drive main dimensions:



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Illustration 1.7: A5 Enclosure

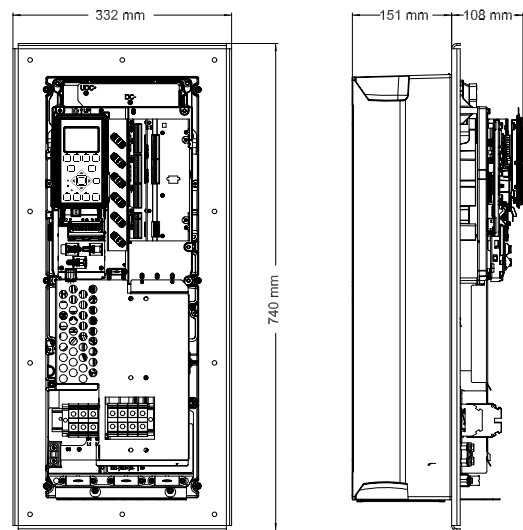
Drive main dimensions



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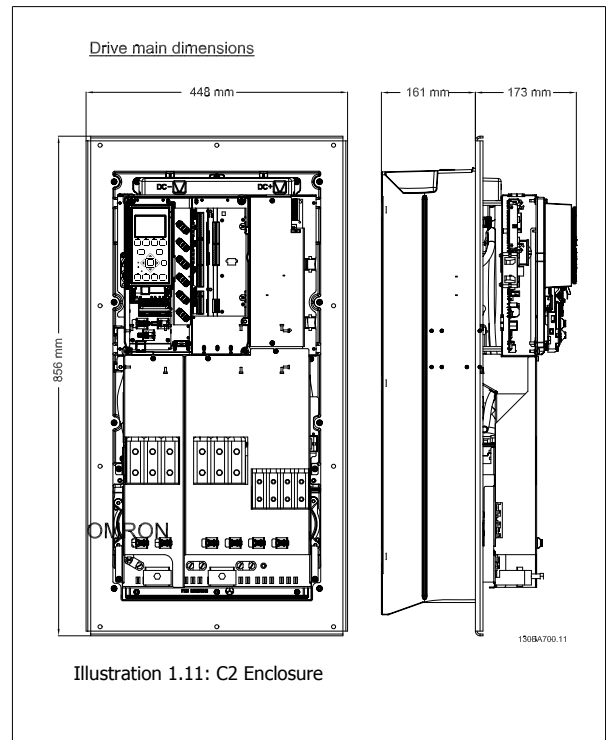
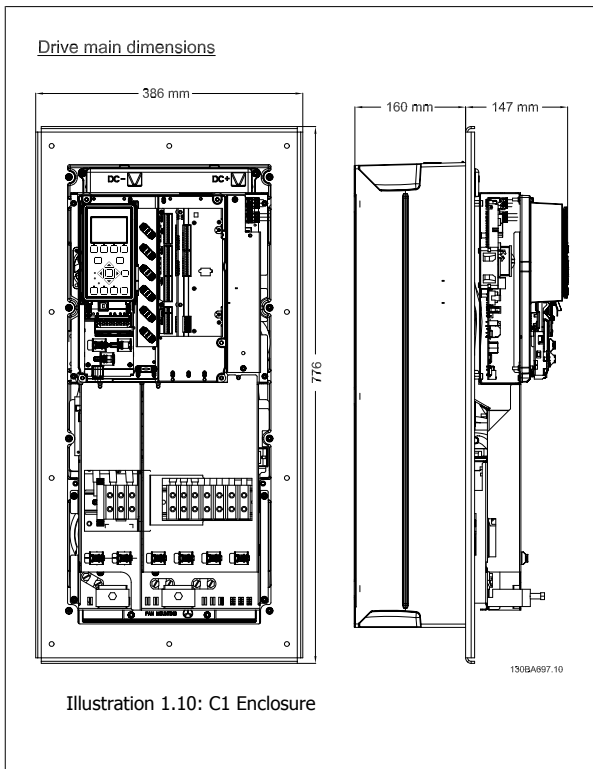
Illustration 1.8: B1 Enclosure

Drive main dimensions

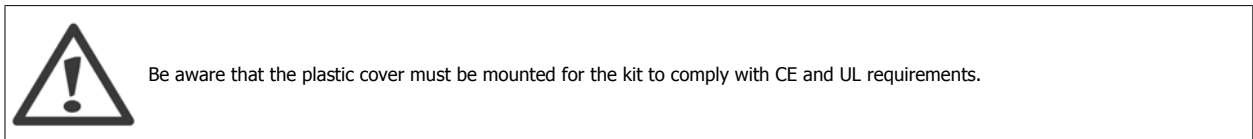


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Illustration 1.9: B2 Enclosure



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.



Assembly of mounting flange to drive with cover. The cover will provide IP21 on the electronics side:

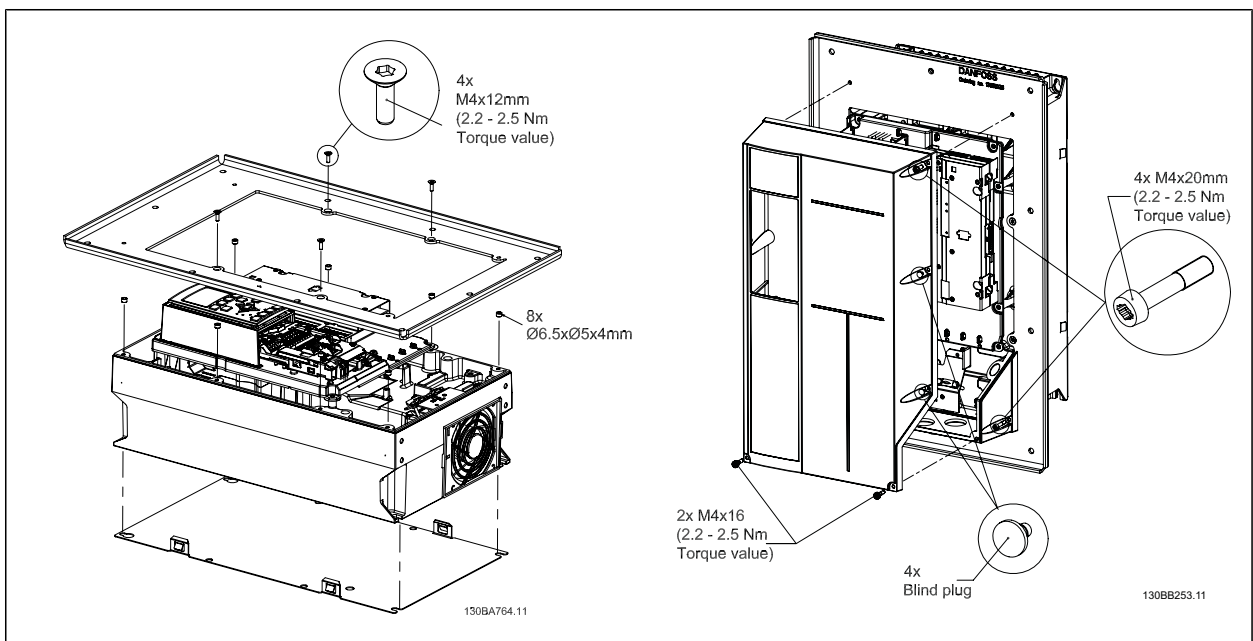


Table 1.1: A5 Enclosure

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