

Panel Through Mount Kit

1 Introduction

1.1 Field of Application

The Panel Through Mount Kit may be used where the heat sink 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, while the heat sink protrudes through the panel.

NOTICE

Always mount back plate and fan when the drive is put in an air duct.

The gasket offers a dust and water tight seal to IP55 for the back chassis of the drive. The front cover is reduced to IP20 as the Panel Through adds space around the LCP, which the LCP gasket and front cover cannot absorb.

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

1.2 Code Numbers for Ordering

Table 1: Code Numbers

Enclosure size	Code number	Back plate (separate delivery)
A5	130B1028	130B1098
B1	130B1046	130B3383
B2	130B1047	130B3397
C1	130B1048	130B3910
C2	130B1049	130B3911

2 Installation

2.1 Drive Main Dimensions

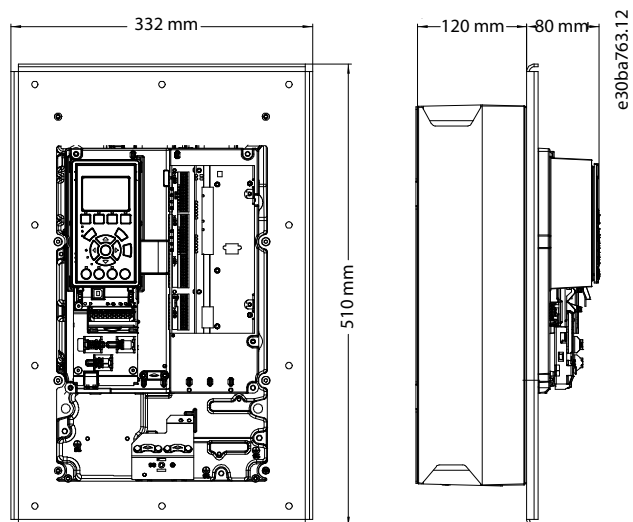


Illustration 1: A5 Enclosure

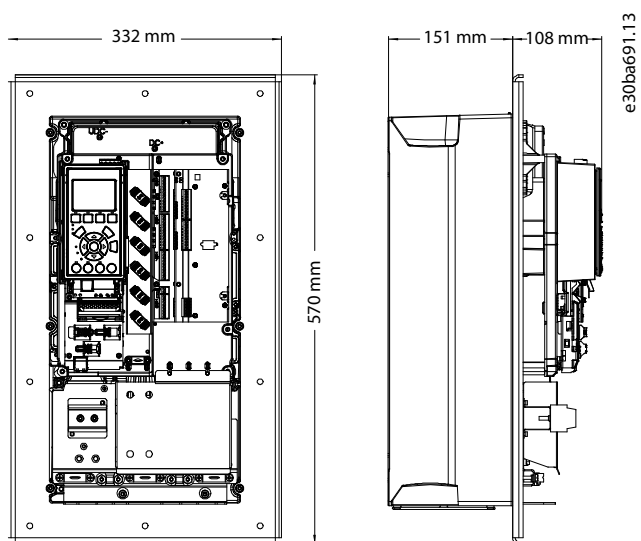


Illustration 2: B1 Enclosure

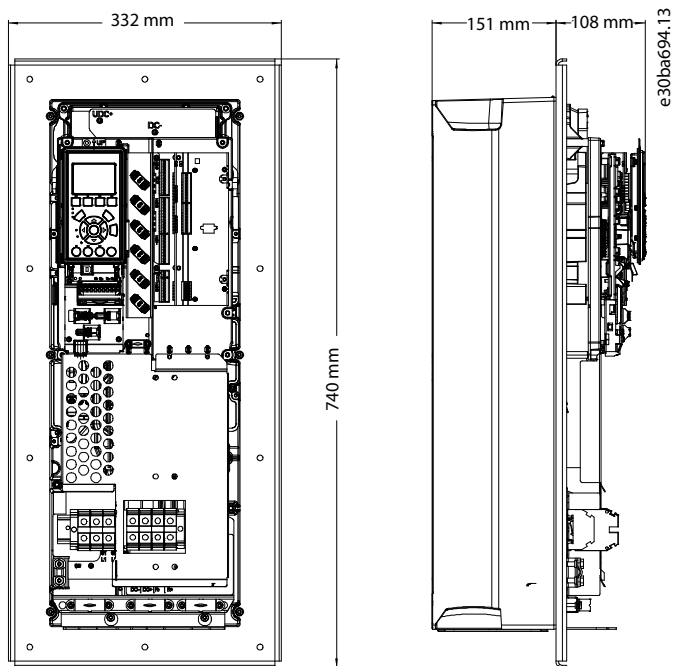


Illustration 3: B2 Enclosure

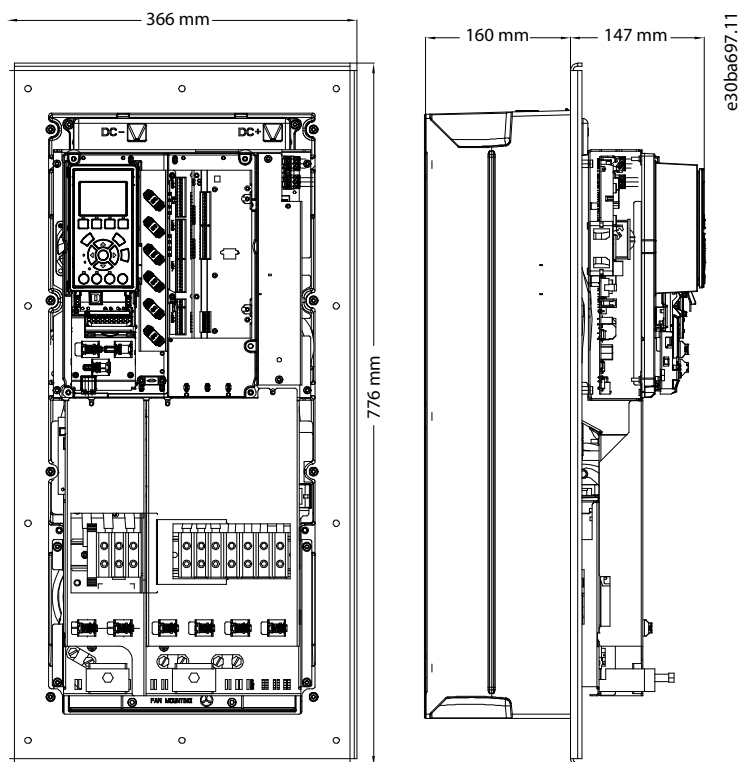


Illustration 4: C1 Enclosure

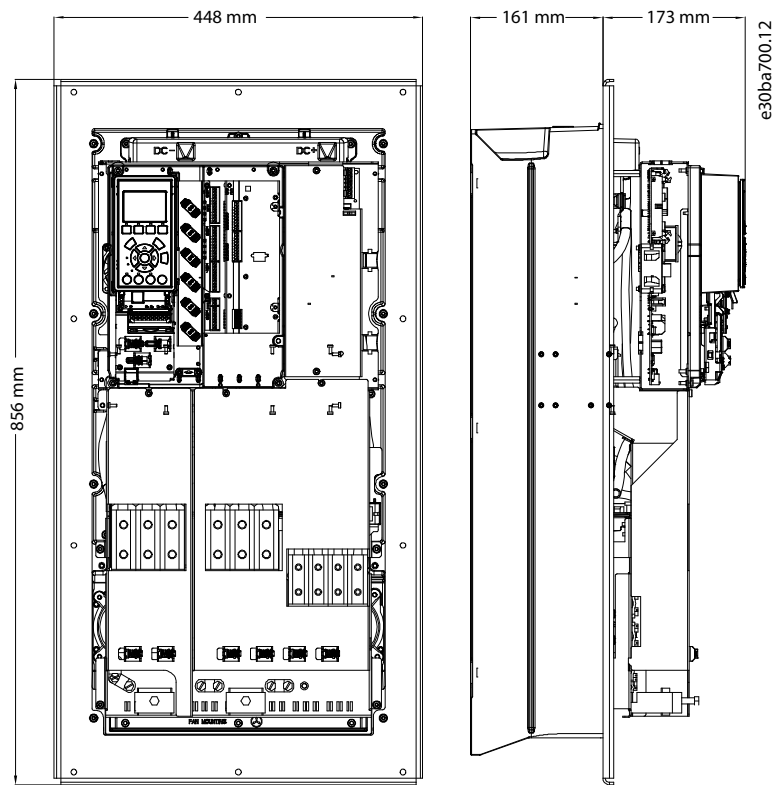


Illustration 5: C2 Enclosure

2.2 Preparing the Panel Cut-out and Fixing Holes

NOTICE

Ensure that the cut-out dimensions are accurate and that sharp edges are removed.

Procedure

1. Create the cut-out and the fixing holes according to the templates shown:

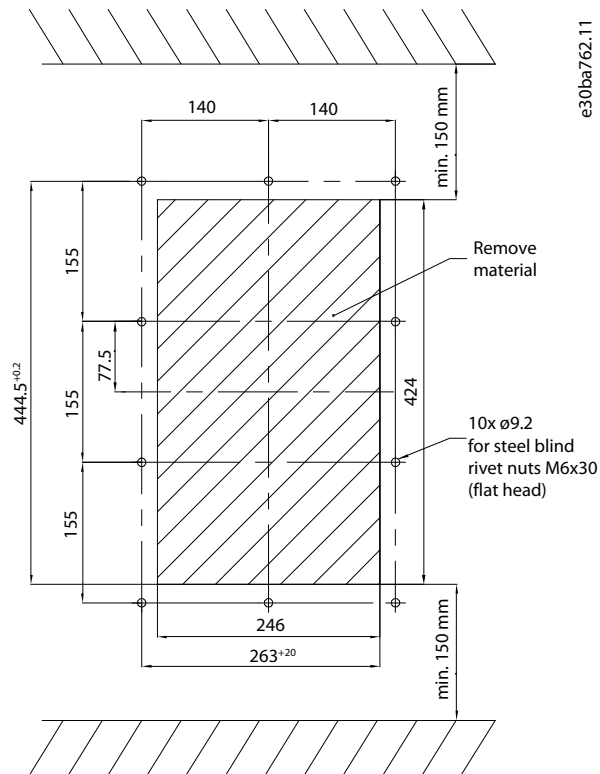
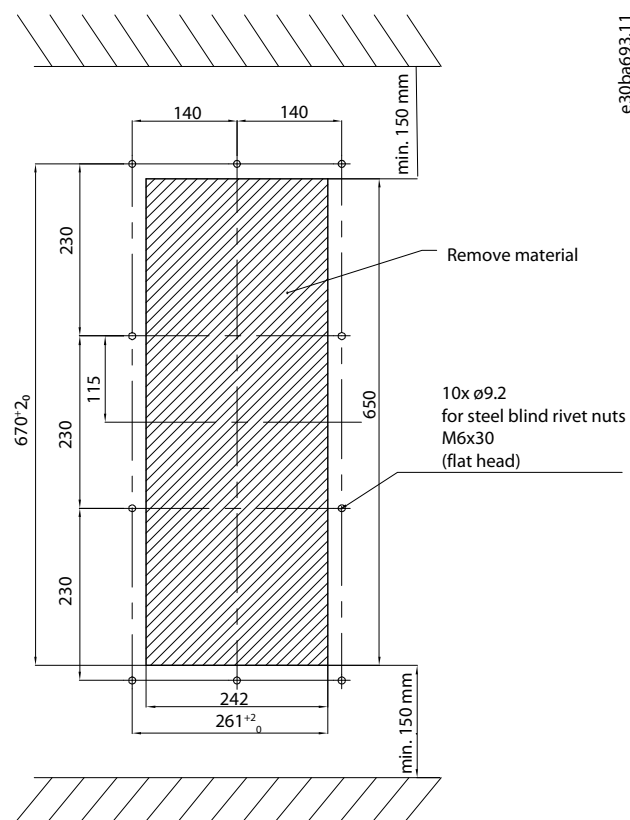


Illustration 6: A5 Enclosure



e30ba693.11



AN437237990171en-000101 / 130R0027

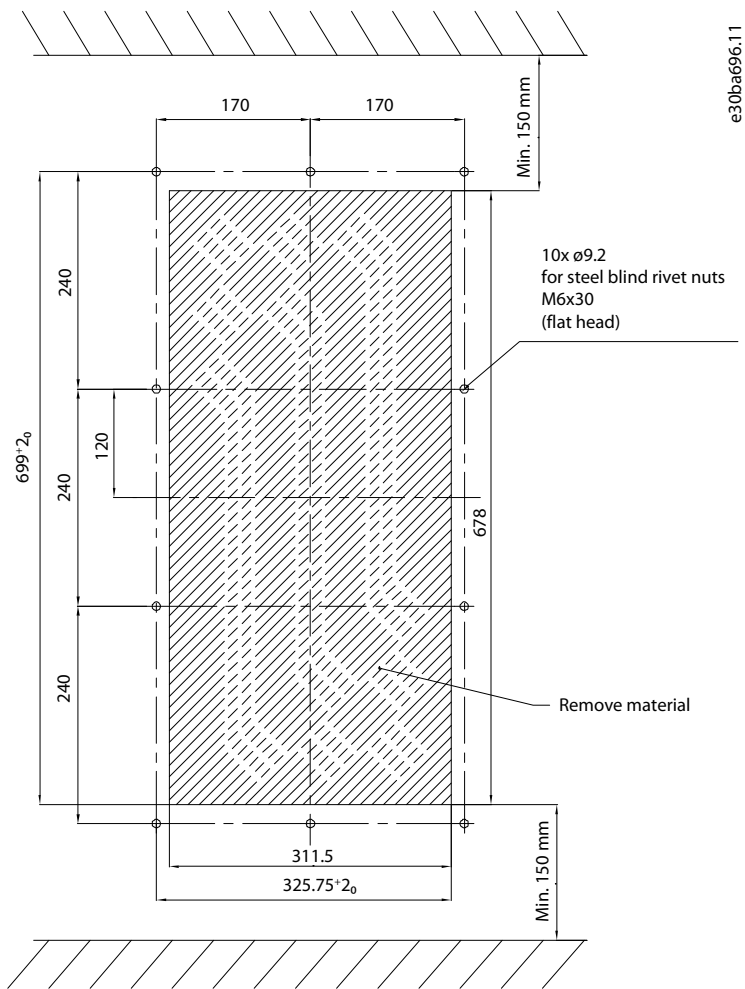


Illustration 9: C1 Enclosure

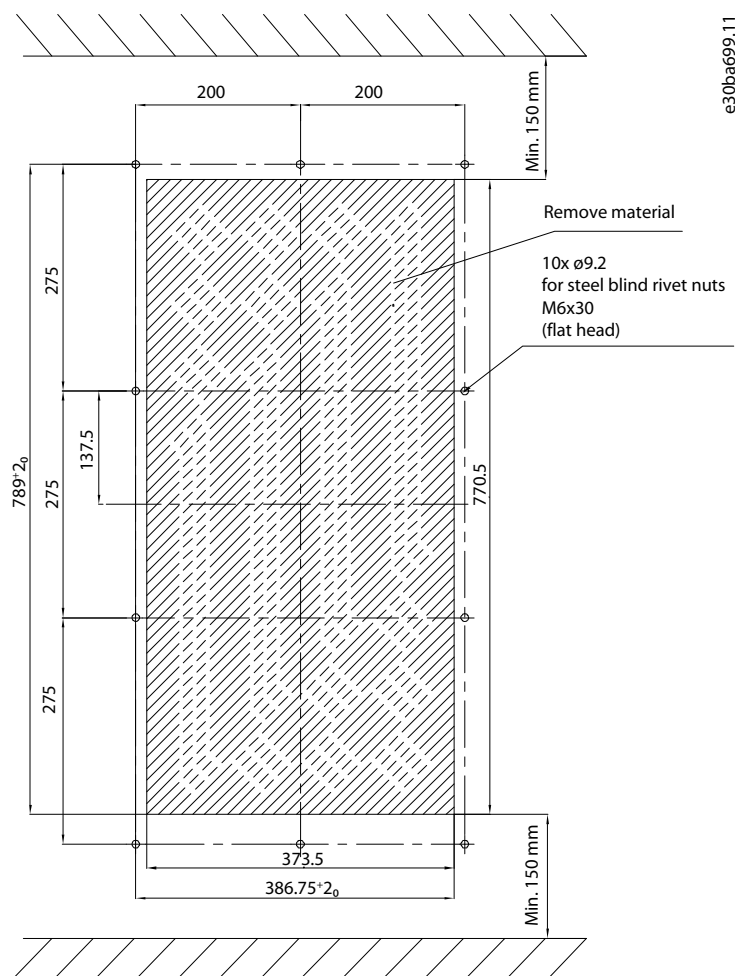
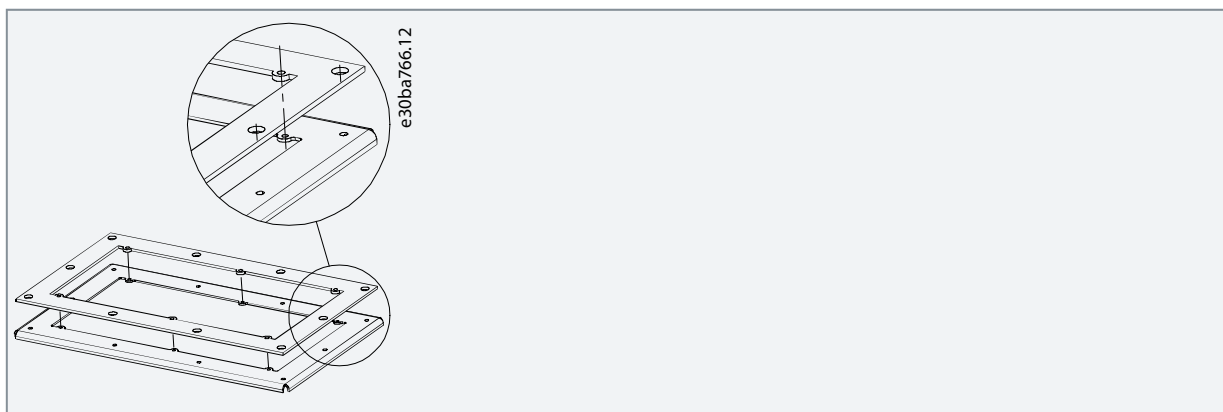


Illustration 10: C2 Enclosure

2.3 Assembling the Mounting Flange

Procedure

1. Fit the sealing on the flange.



2. Assemble the flange for the drive using the supplied screws and captive washers.
3. Torque the screws to 2.2–2.5 Nm (19.5–22.1 in-lb) using a Torx-20 tool.

If the drive is to be mounted through the front of the panel, assemble the flange so that the raised edge of the flange turns upwards (towards the electronics). If the drive is to be mounted from the rear of the panel, fit the flange with the raised edge facing away from the electronics.

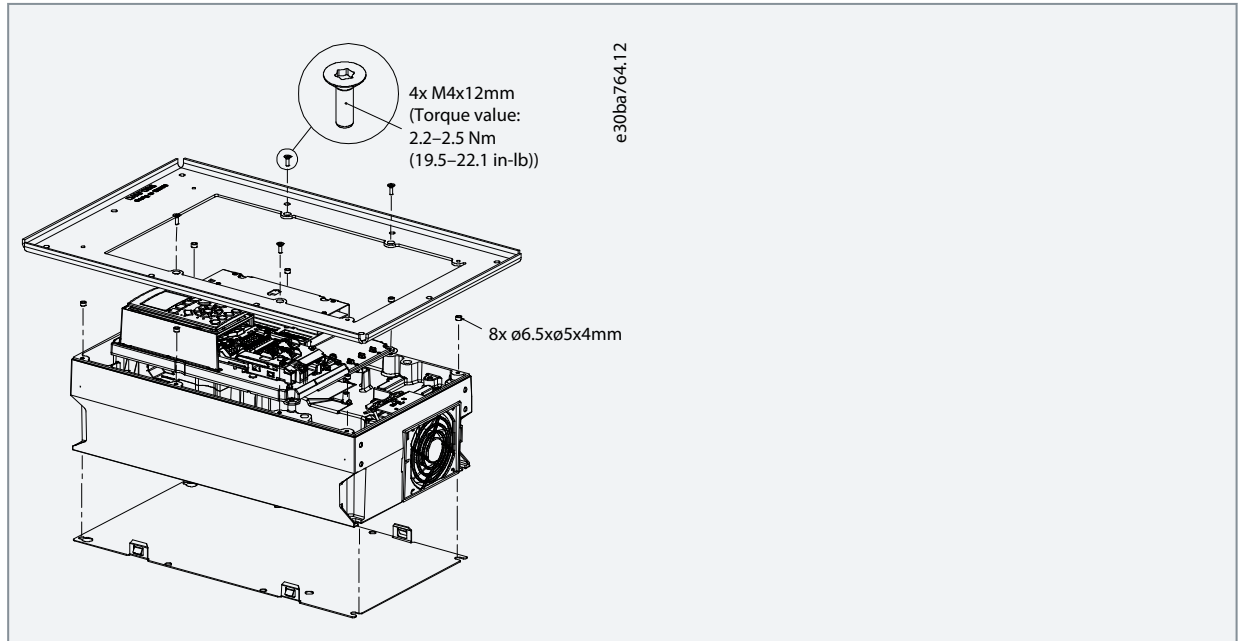
2.4 Mounting the Drive Through the Panel

NOTICE

Be aware that the plastic cover must be mounted for the kit to comply with CE and UL requirements.

Procedure

1. Mount the flange on the drive.



2. Mount the drive through the cut-out in the panel. Make sure to position the heat sink carefully through the cut-out to avoid damage to the gasket.
3. Secure the unit using suitable nuts and bolts in the fixing holes.
4. Mount the cover on the flange and secure it with either screws or spacers and hooks in the remaining screw holes.

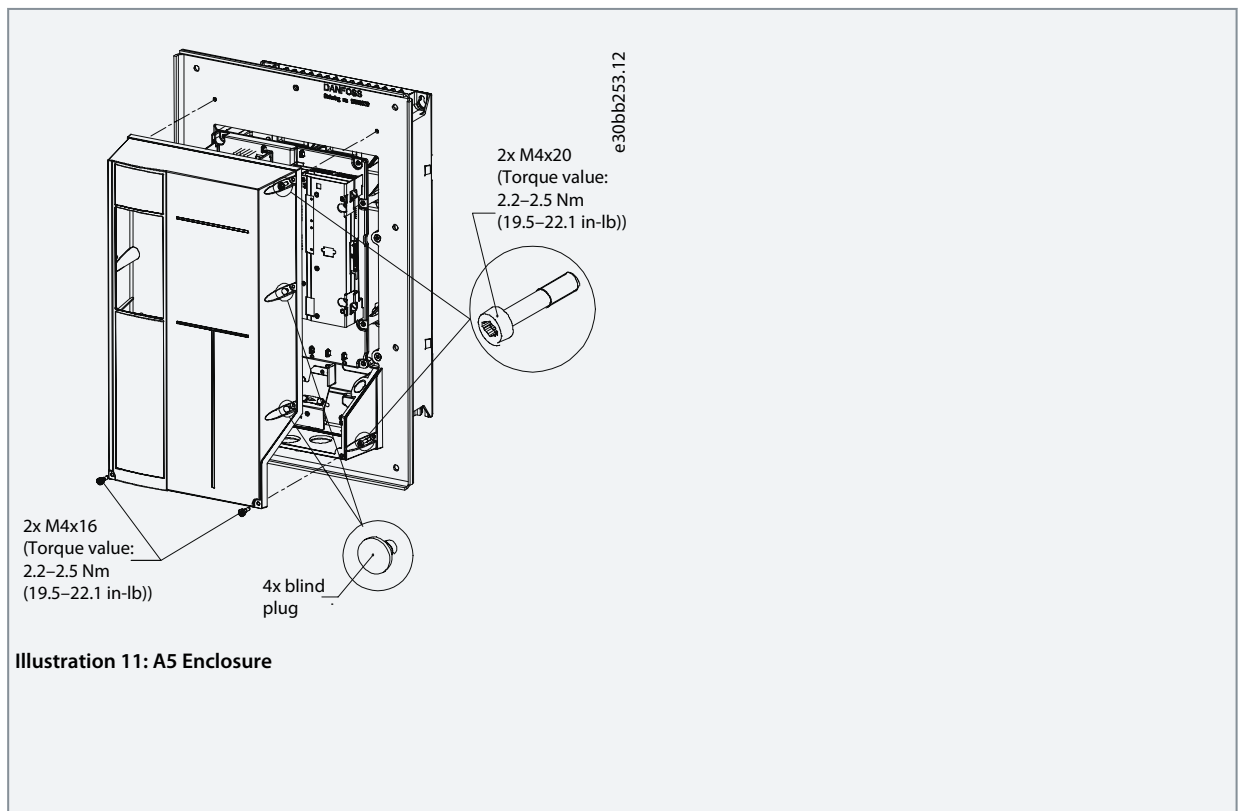
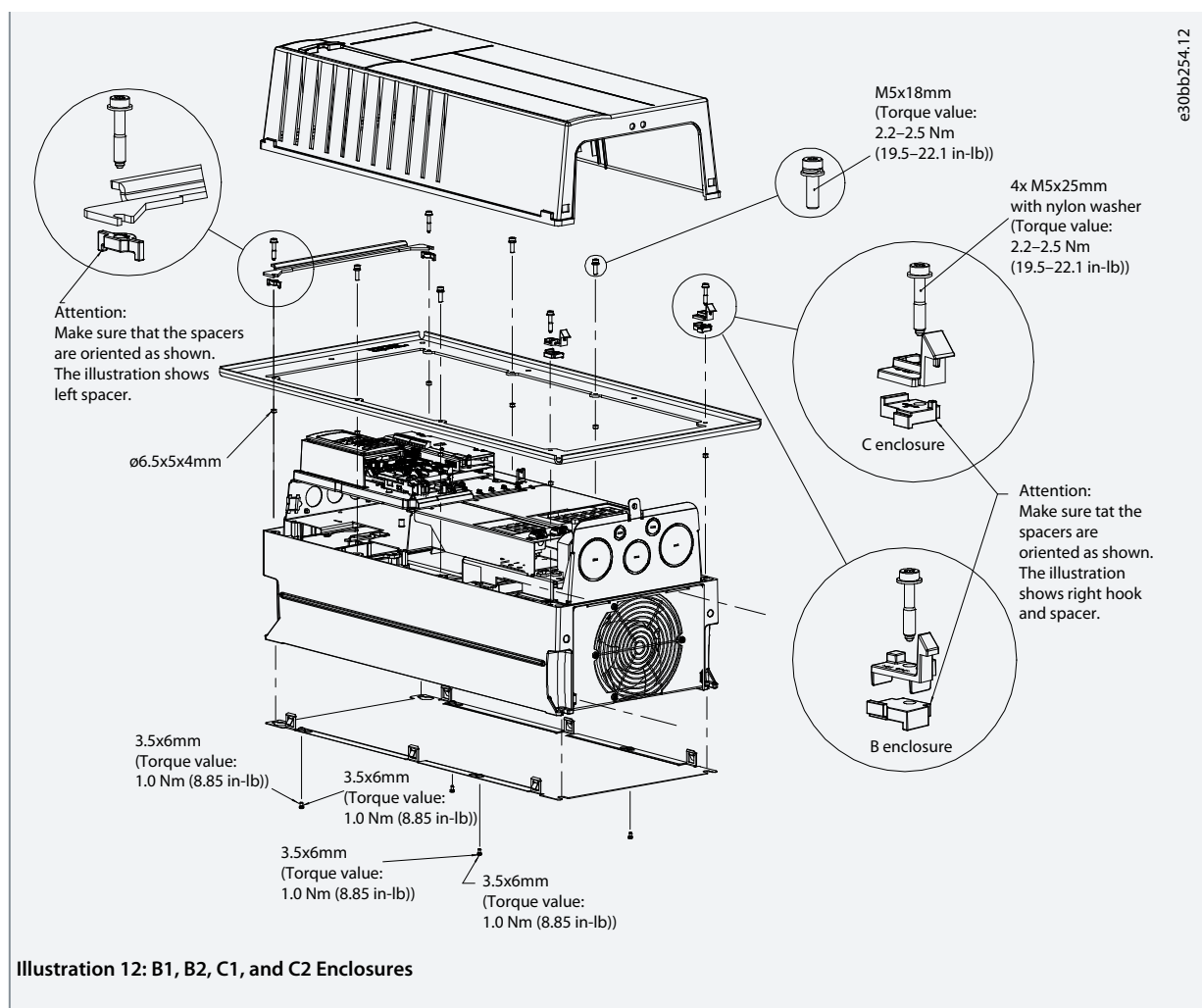


Illustration 11: A5 Enclosure

**Danfoss A/S**

Ulsnaes 1

DK-6300 Graasten

vlt-drives.danfoss.com

Danfoss can accept no responsibility for possible errors in catalogs, brochures, and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

