

GE Consumer & Industrial
Electrical Distribution

AF-650 GP™ & AF-600 FP™ Panel Through Mount Kit



imagination at work



1 Mounting Instructions

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 Keypad, whilst the heatsink protrudes through the panel. Using these kits removes 70% of the heat from inside a panel. Please see relevant drive Operating Instructions for watt loss information.

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/NEMA 12.

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

1.2 Ordering

The Kit is available in 5 sizes to suit unit sizes 15, 21, 22, 31 and 32.

Panel Through Mount Kits consist of gaskets and flanges.

Drive size	Panel Through Kit GE Cat #	Back plate steel (separate delivery) GE Cat #	Back plate stainless steel (separate delivery) GE Cat #
Unit Size 15	OPCPMK15	OPCBPS15	OPCBPSS15
Unit Size 21	OPCPMK21	OPCBPS21	OPCBPSS21
Unit Size 22	OPCPMK22	OPCBPS22	OPCBPSS22
Unit Size 31	OPCPMK31	OPCBPS31	OPCBPSS31
Unit Size 32	OPCPMK32	OPCBPS32	OPCBPSS32



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1.3 Preparation

1.3.1 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:

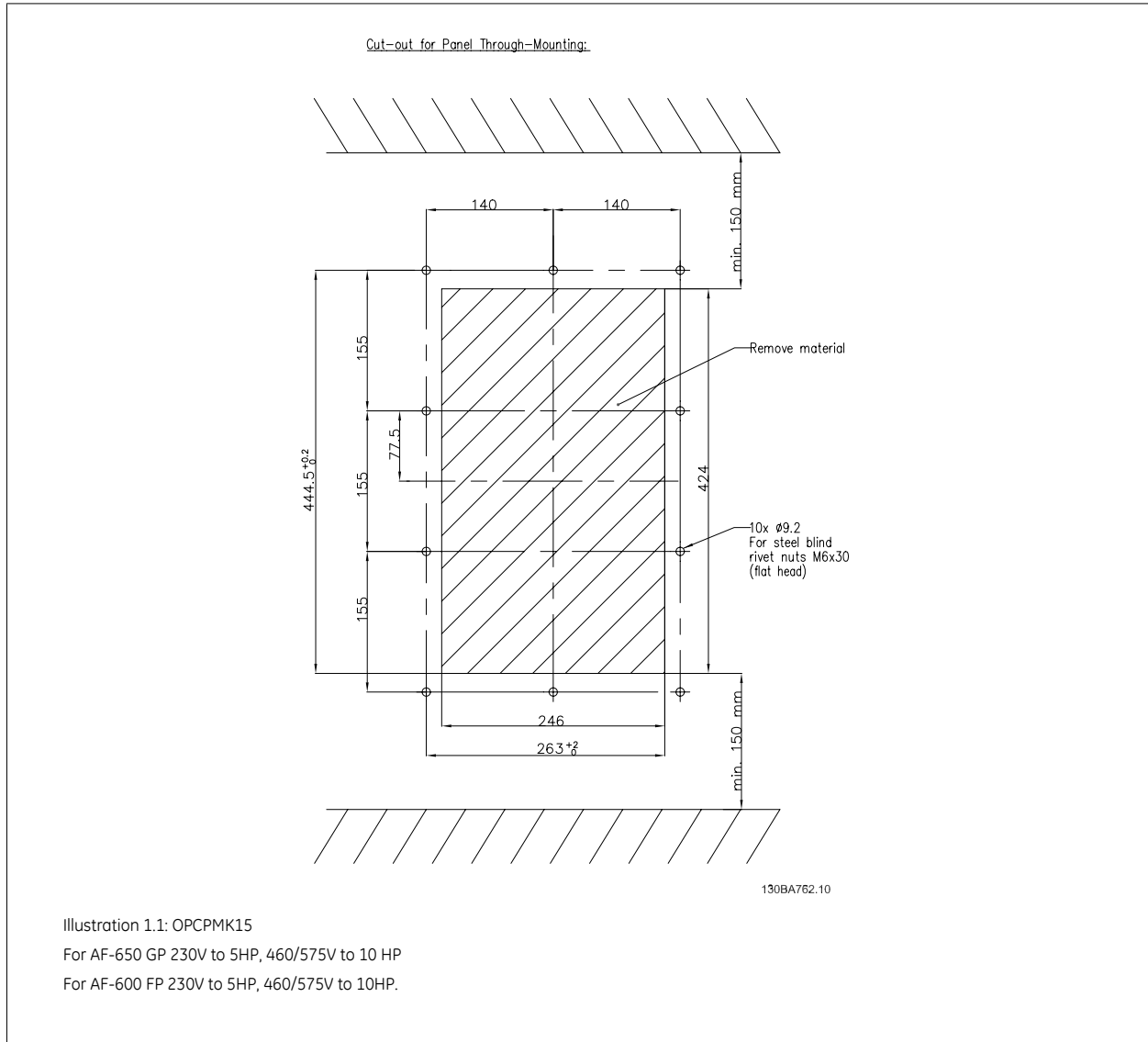


Illustration 1.1: OPCPMK15

For AF-650 GP 230V to 5HP, 460/575V to 10 HP

For AF-600 FP 230V to 5HP, 460/575V to 10HP.



Cut-out for Panel Through-Mounting:

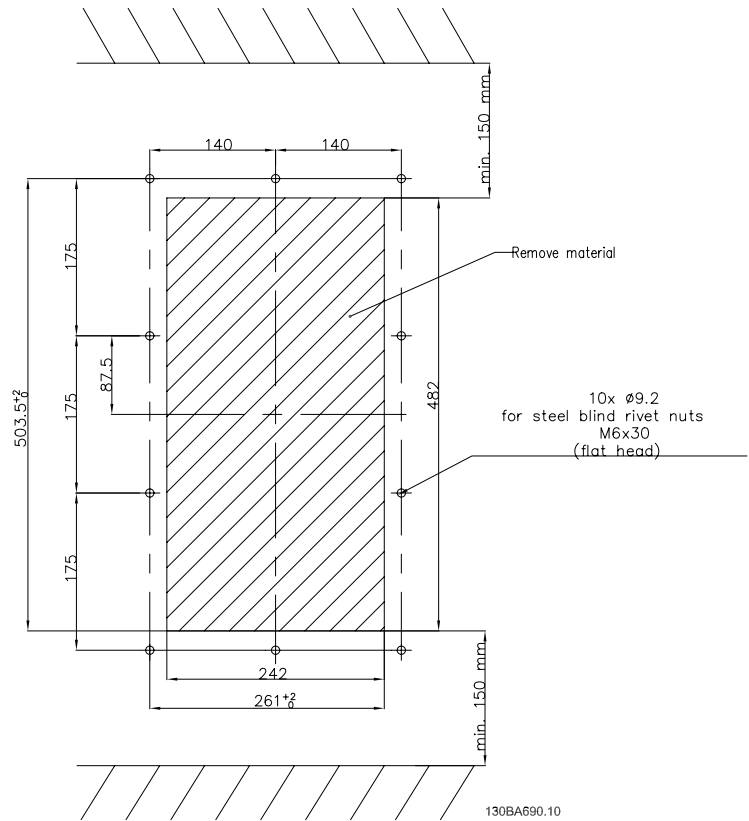


Illustration 1.2: OPCPMK21
For AF-650 GP 230V, 7.5-10HP, 460/575V 15-20HP
For AF-600 FP 230V 7.5-15HP, 460/575V 15-25HP.



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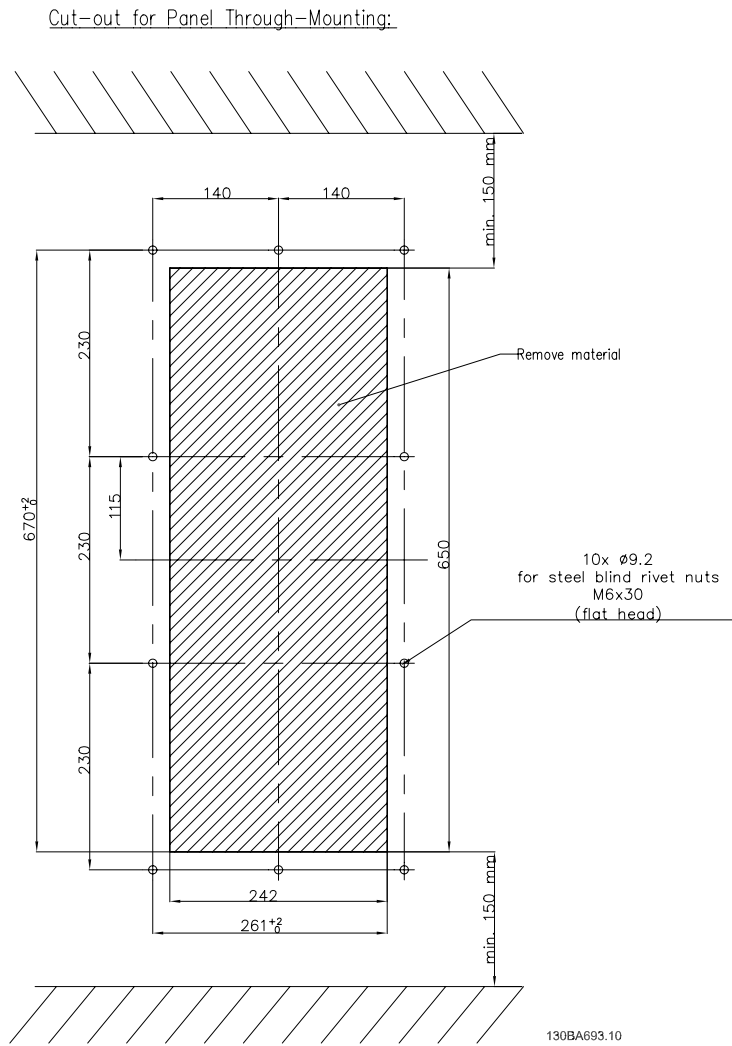


Illustration 1.3: OPCPMK22

For AF-650 GP 230V, 15HP, 460/575V 25-30HP

For AF-600 FP 230V 20HP, 460/575V 30-40HP.

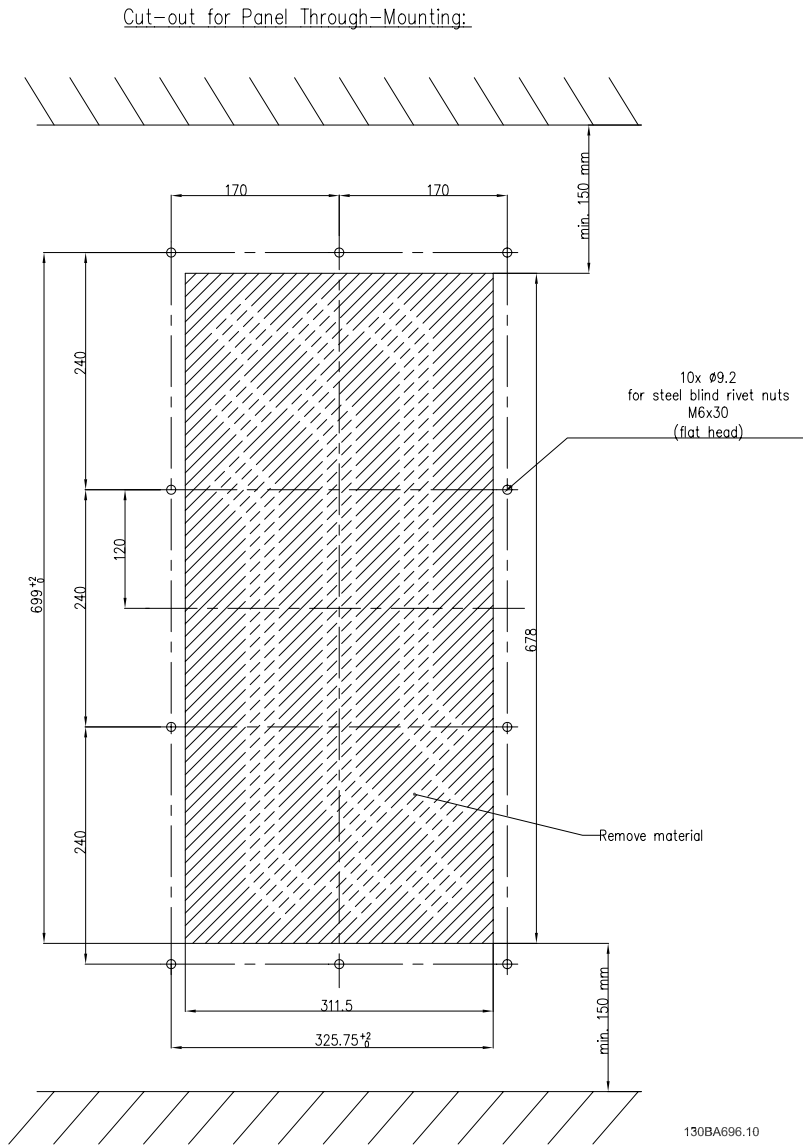
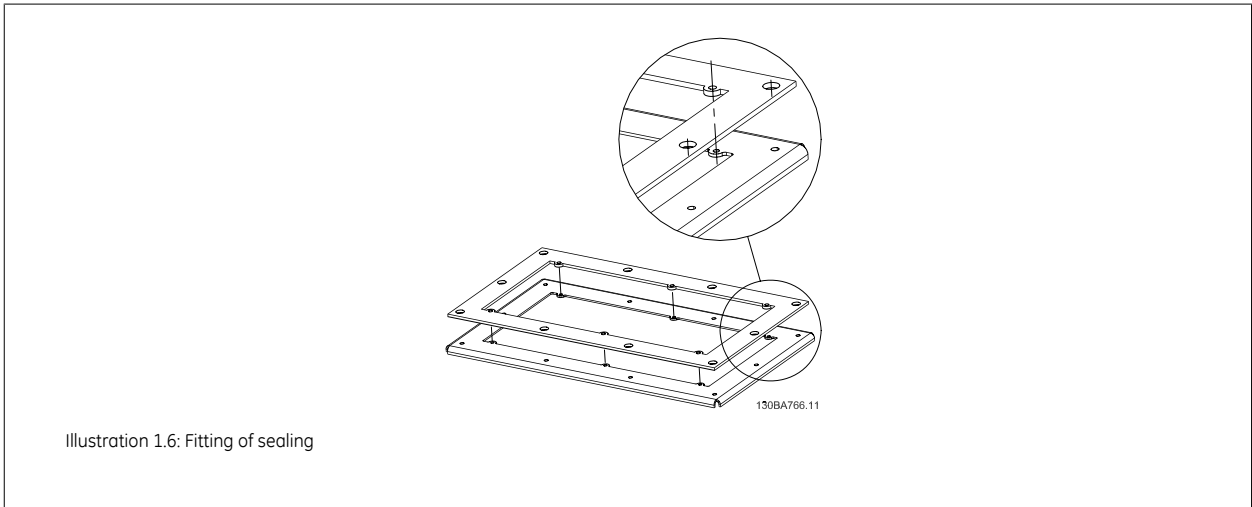


Illustration 1.4: OPCPMK31
For AF-650 GP 230V, 20-30HP, 460/575V 40-60HP
For AF-600 FP 230V 25-40HP, 460/575V 50-75HP.



1.4 Assembly

1.4.1 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 and weight:

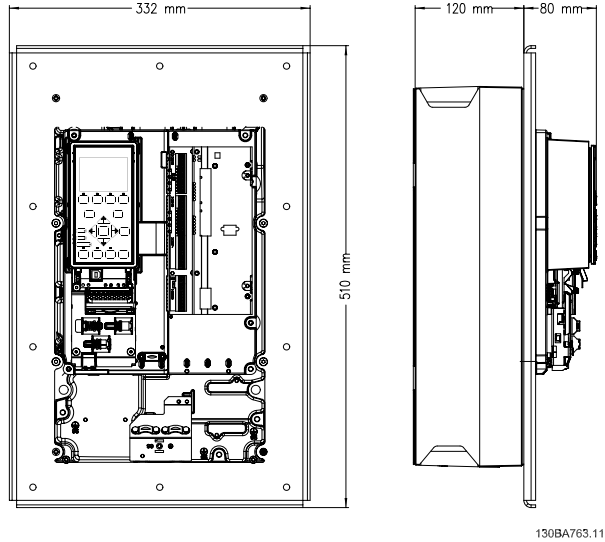


Illustration 1.7: OPCPMK15

Drive main dimensions and weight:

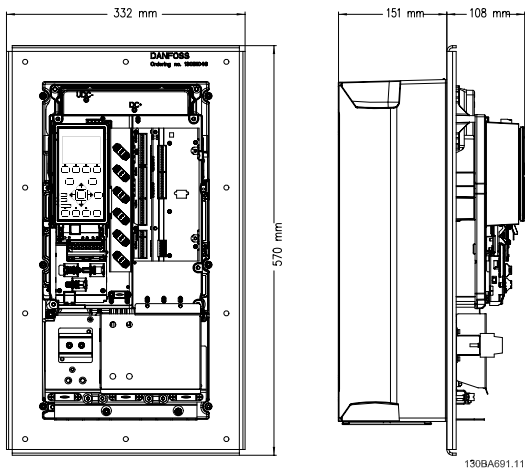


Illustration 1.8: OPCPMK21

Drive main dimensions and weight:

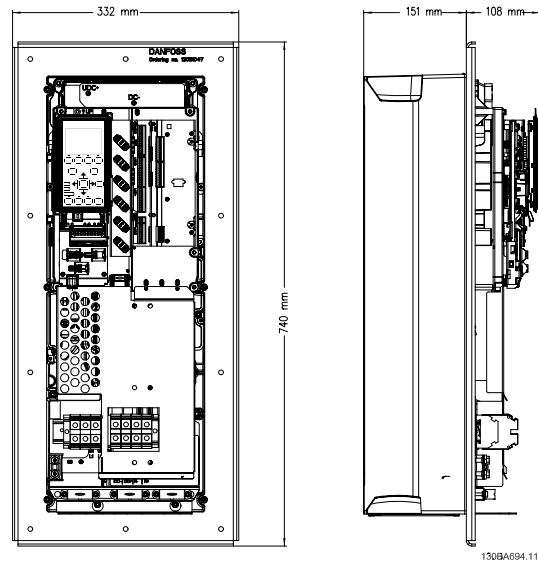
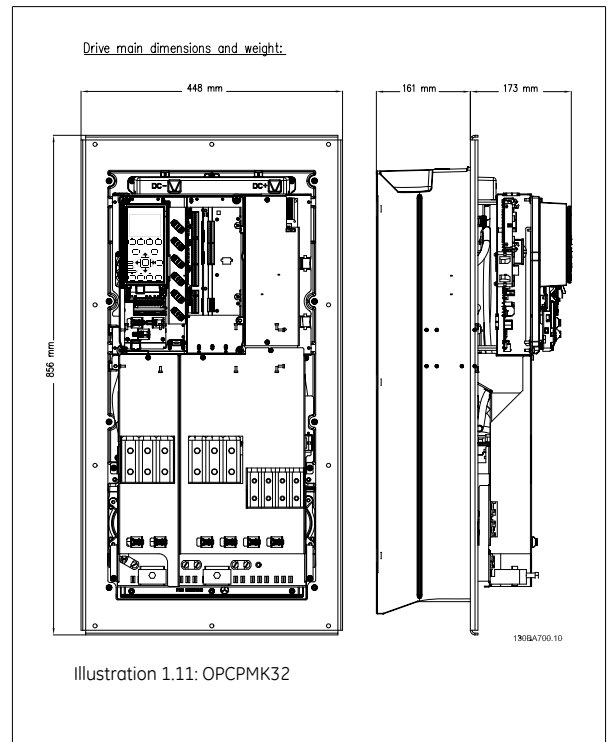
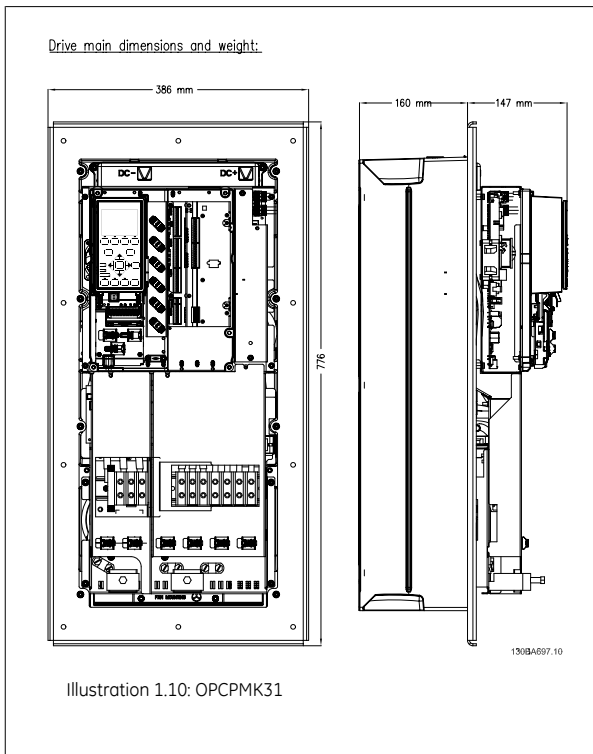


Illustration 1.9: OPCPMK22



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.

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

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

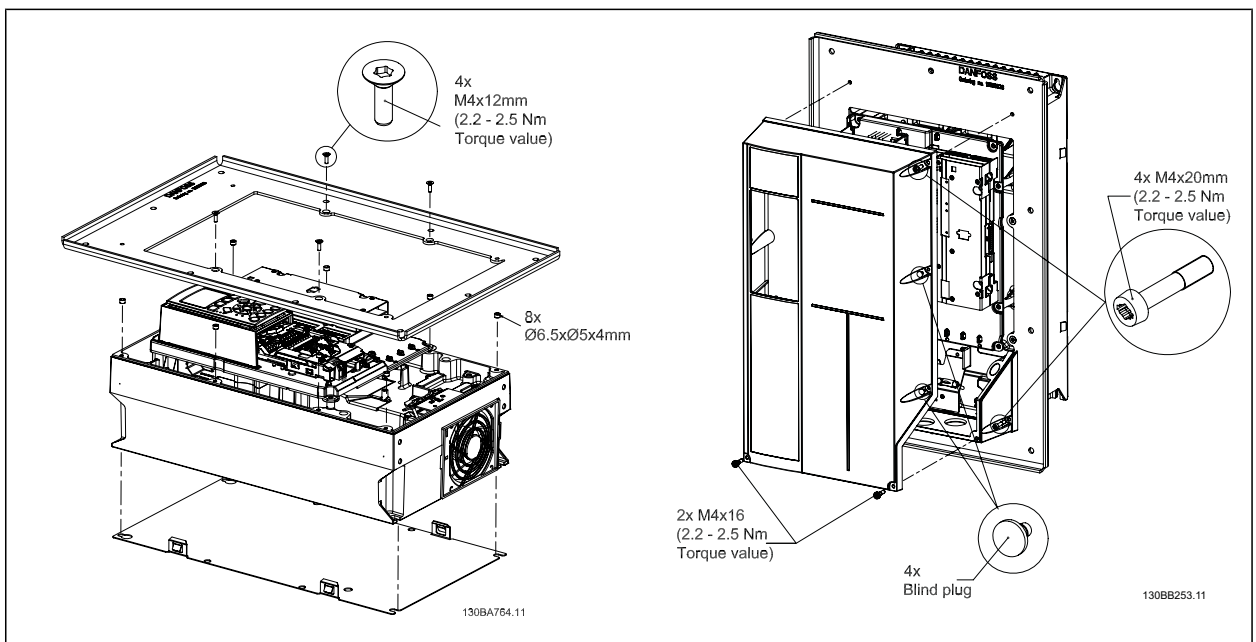
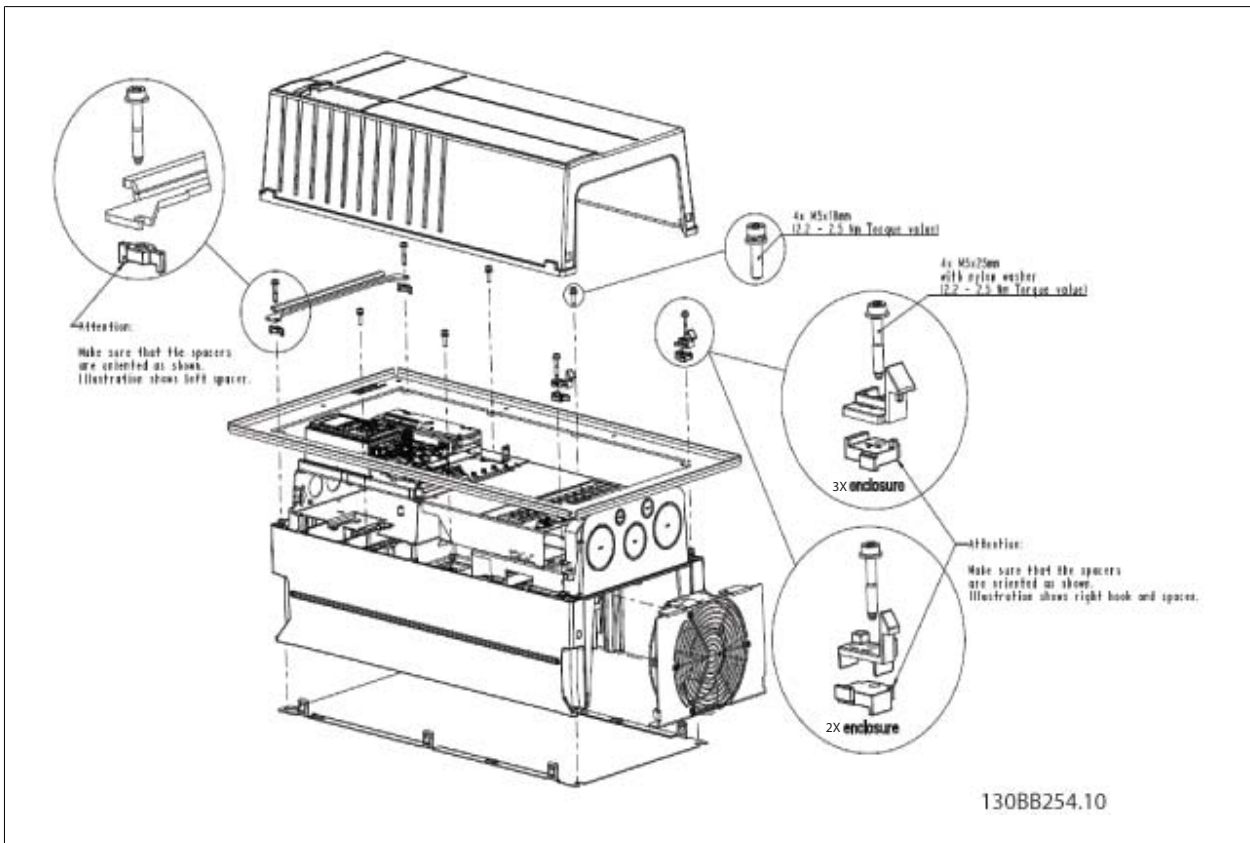


Table 1.1: OPCPMK15



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The instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the GE company.

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GE Consumer & Industrial
41 Woodford Avenue
Plainville, CT 06062

www.geelectrical.com/drives



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