FLANGE MOUNT KITS FOR FRAMES MR4 TO MR7 MOUNTING INSTRUCTIONS

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FLANGE MOUNT KITS FOR FRAMES MR4 TO MR7 MOUNTING INSTRUCTIONS

GENERAL

Using the optional Flange Mounting Kit, you can mount your AC drive through the cabinet wall or similar surface so that the control unit of the drive remains inside the cabinet.

The correct installation of the Flange Mounting Kit might affect the IP protection class of the AC drive. If your drive is protected according to an IP54/Type12, or your drive is supplied with the flange option at the factory, you only need to install the collars, as instructed. However, the power module of an IP21/Type1-protected drive will only become protected according to the IP54/Type12 on the rear side (see figure below), if all parts of the flange mounting kit are installed properly. The need for this has to be evaluated and these actions are explained in this guide.

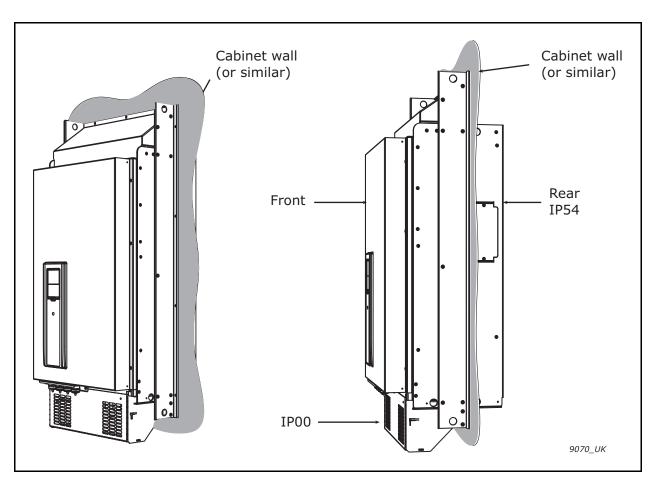


Figure 1. Example of the flange mounting with MR9

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FLANGE MOUNT - FRAMES MR4 - MR7

Figure 6. presents the dimensions of the opening and the drive outline with the flange. Figures 2. - 5. present the dimensions of the drives with the flange mount option.

It is recommended that the embossed holes or self clinching nuts are used in the back plate for the drive mounting in order to guarantee the sealing.

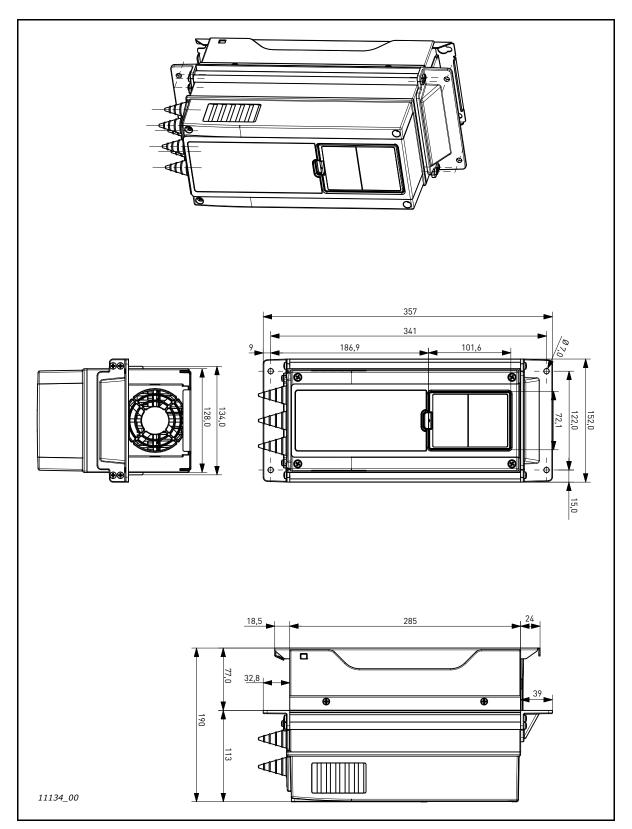


Figure 2. MR4, flange mount, dimensions

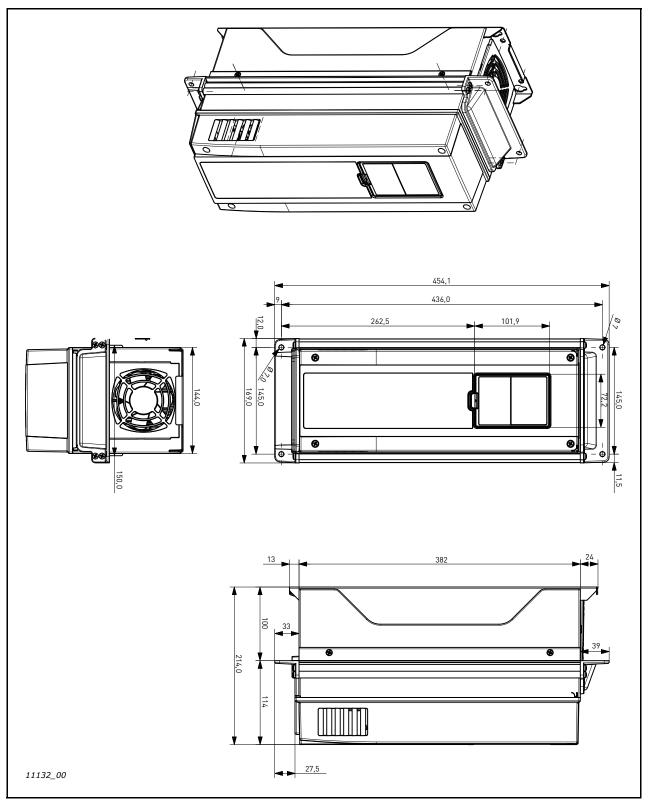


Figure 3. MR5, flange mount, dimensions

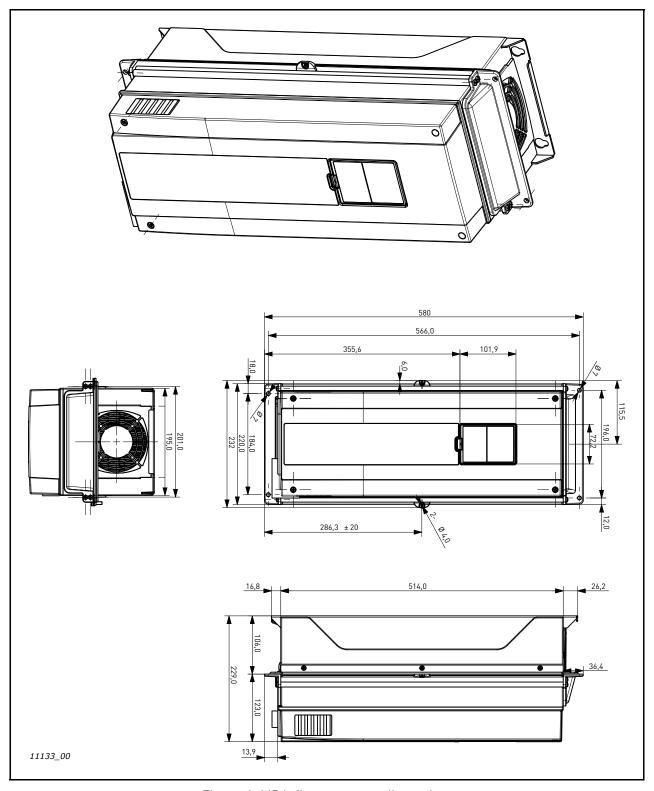


Figure 4. MR6, flange mount, dimensions

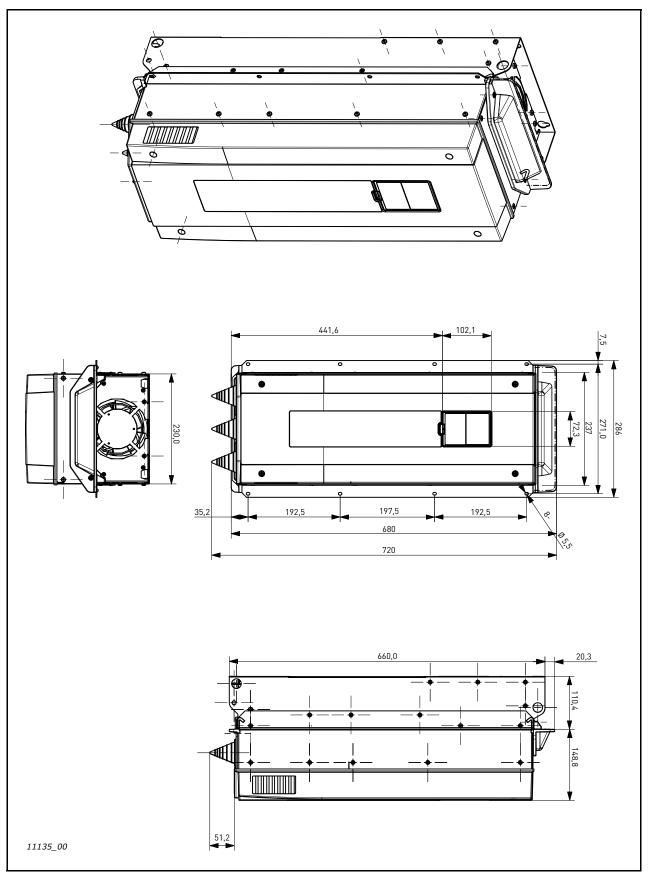


Figure 5. MR7, flange mount, dimensions

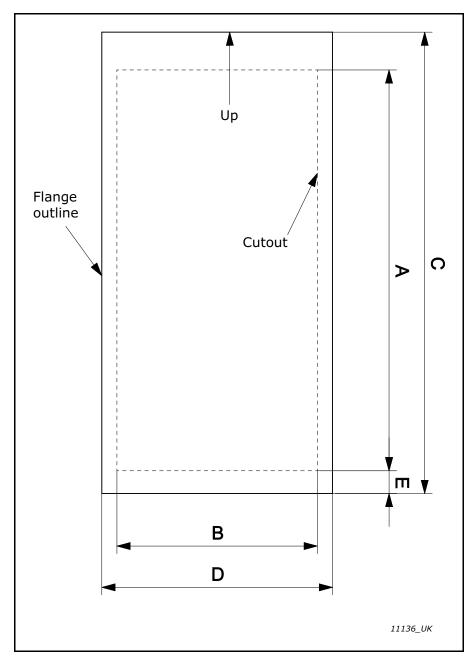
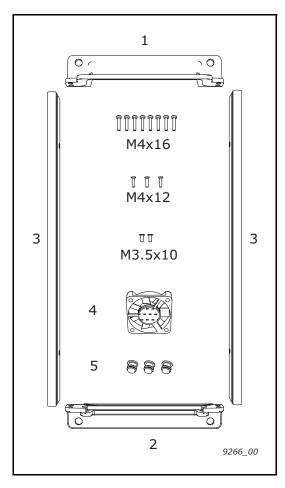


Figure 6. Flange mount cutout and drive outline dimensions for MR4 to MR7

Table 1. Flange mount cutout dimensions for MR4 to MR7

Frame	Α	В	С	D	Е
MR4	315	137	357	152	24
MR5	408	152	454	169	23
MR6	541	203	580	220	23
MR7	655	240	680	286	13

FLANGE MOUNT KIT FOR FRAME MR4



The parts needed in the installation:

- 1 = Top collar (70CMR00281)
- 2 = Bottom collar (70CMR00280)
- 3 = Side collars, 2 pcs (70CMR00282)
- 4 = Internal fan, (70CPE00132, 70CPE00056) depending on the control unit
- 5 = Sealing plugs, 3 pcs (70CMR00324)

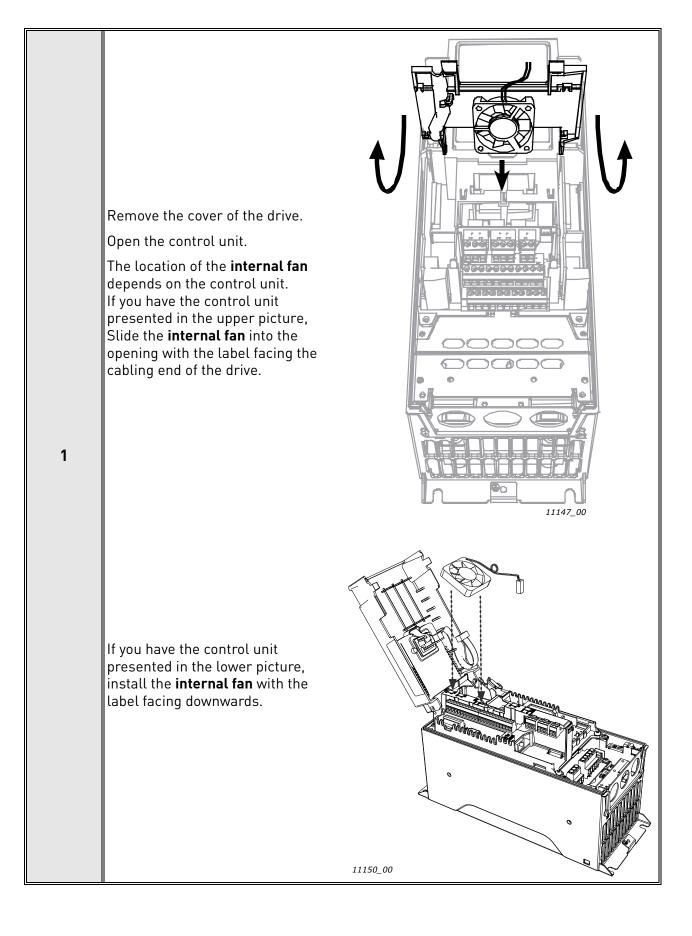
Additionally:

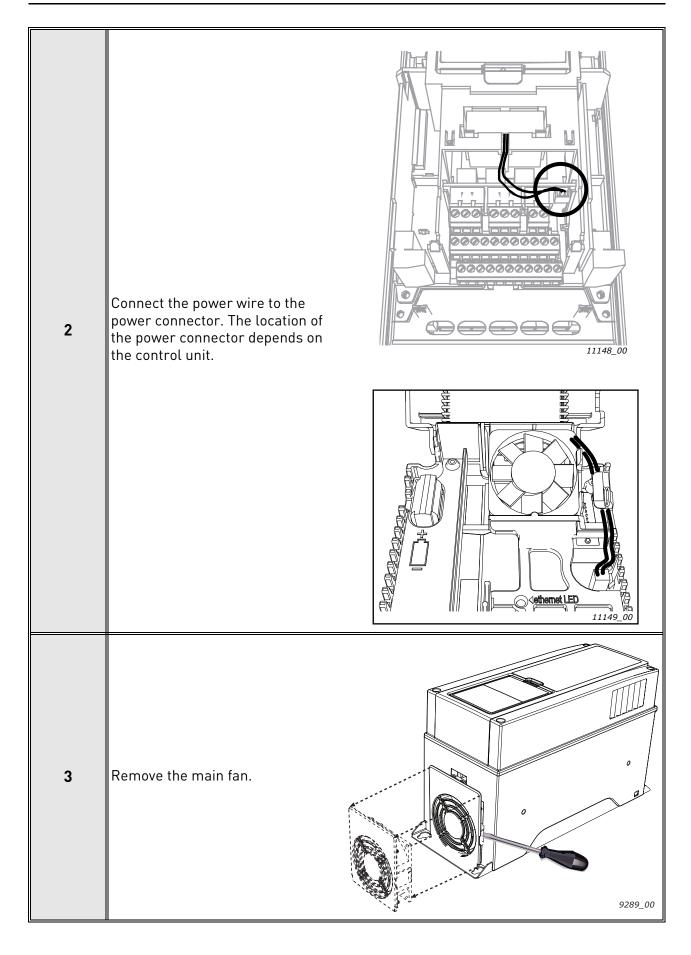
- 8 pcs screws, size 4x16 (for the top and bottom collar mounting)
- 3 pcs screws, size 4x12 (for the side collar mounting)
- 2 pcs screws, size 3.5x10 (for the bottom collar mounting)

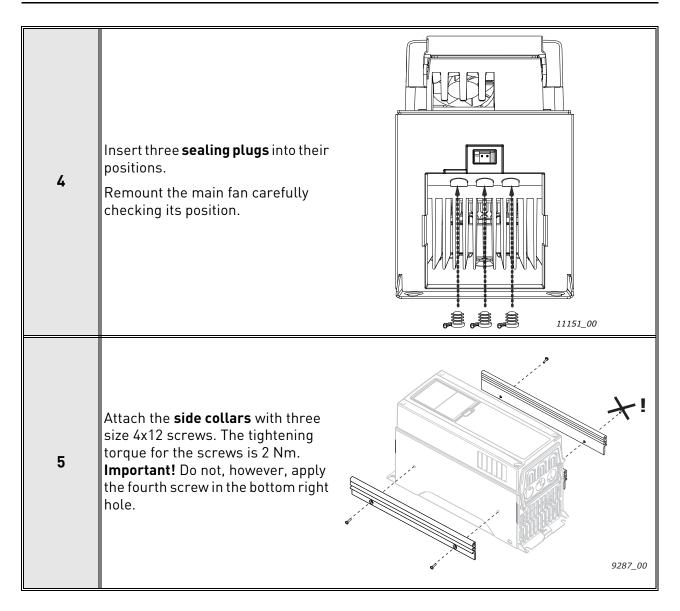
MR4 FLANGE MOUNTING

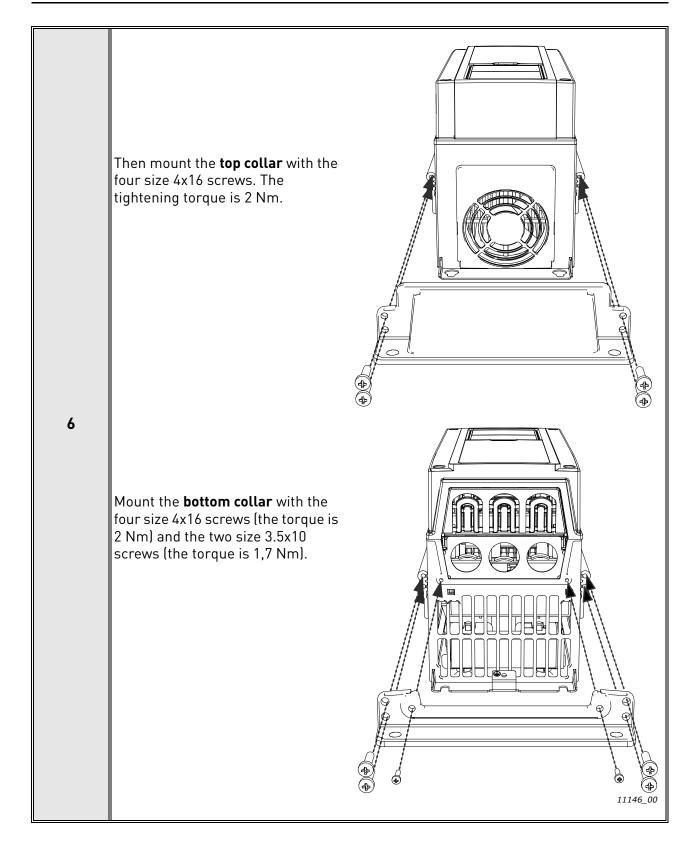
If your drive is IP21/Type1-protected and there is the risk that dust or other impurities in the cooling air might end up inside the control unit, start the mounting with actions described in steps 1 to 4.

If this is not needed, install the flange mounting kit proceeding directly to step 5. Note, in this case the rear will not be according to the IP54/Type12.

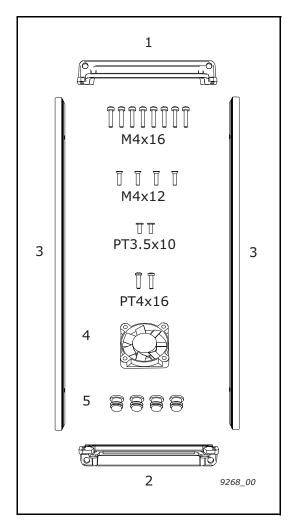








FLANGE MOUNT KIT FOR FRAME MR5



The parts needed in the installation:

- 1 = Top collar (70CMR00176)
- 2 = Bottom collar (70CMR00175)
- 3 = Side collars, 2 pcs (70CMR00090)
- 4 = Internal fan (70CPE00056)
- 5 = Sealing plugs, 4 pcs (70CMR00324)

Additionally:

8 pcs screws, size 4x16 (for the top and bottom collar mounting)

4 pcs screws, size 4x12 (for the side collar mounting)

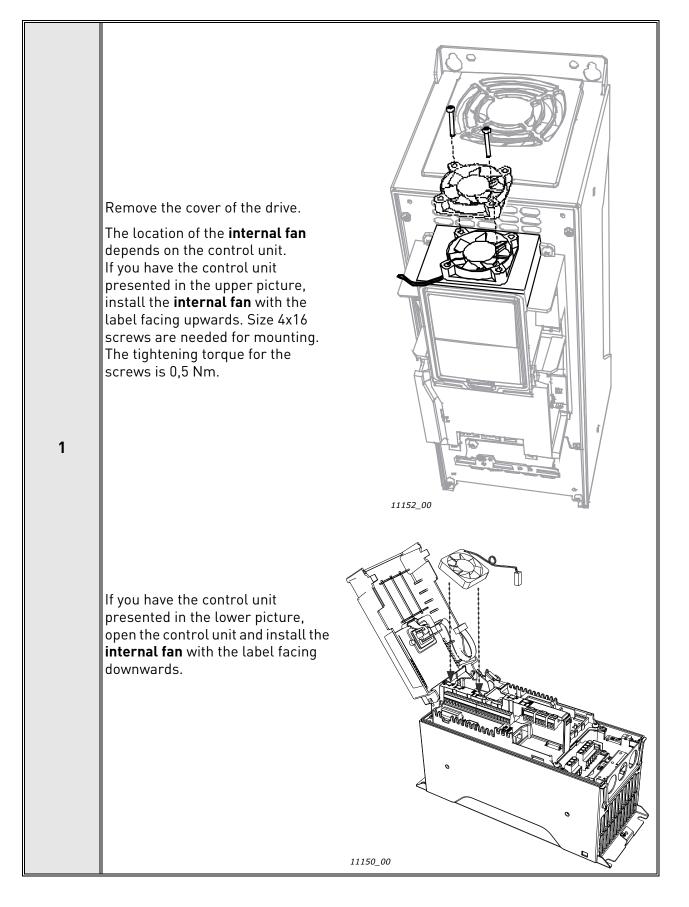
2 pcs screws, size 3.5x10 (for the bottom collar mounting)

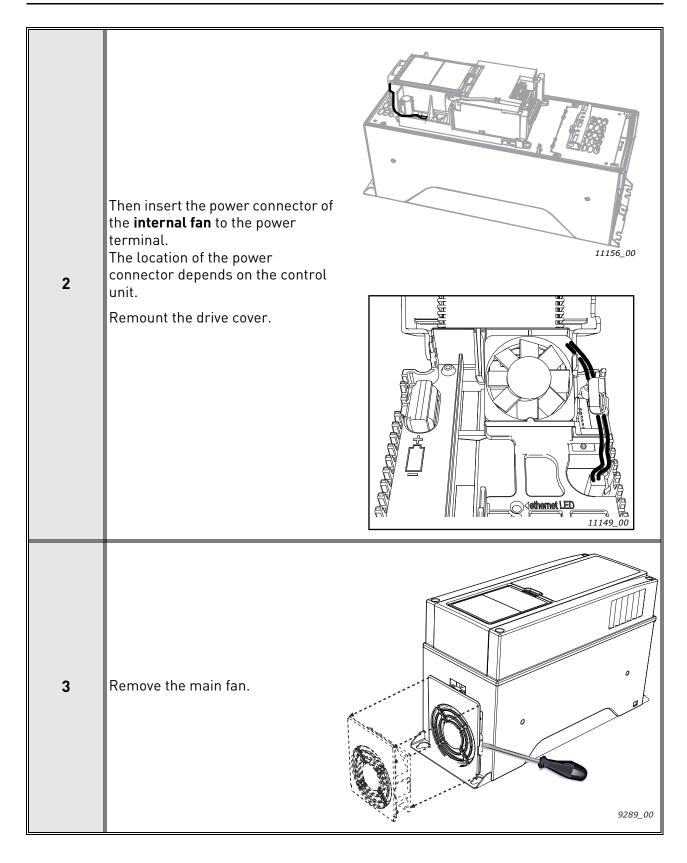
2 pcs screws, size 4x16 (for the mounting of the internal fan)

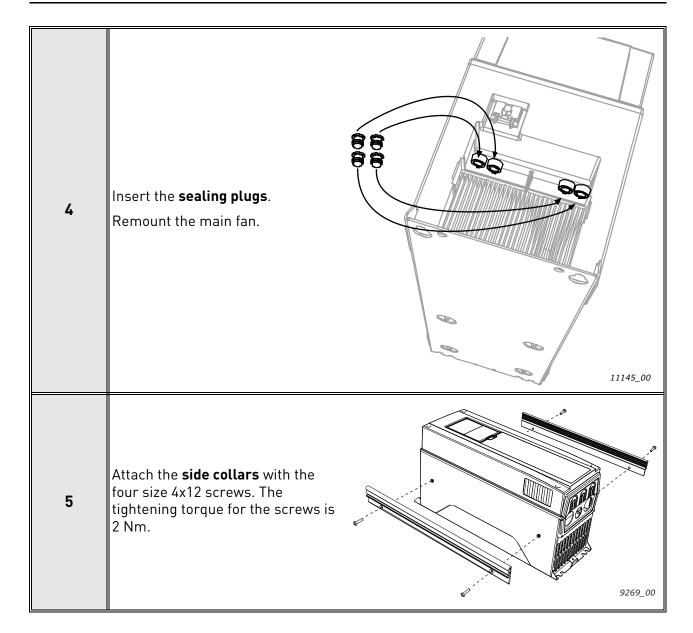
MR5 FLANGE MOUNTING

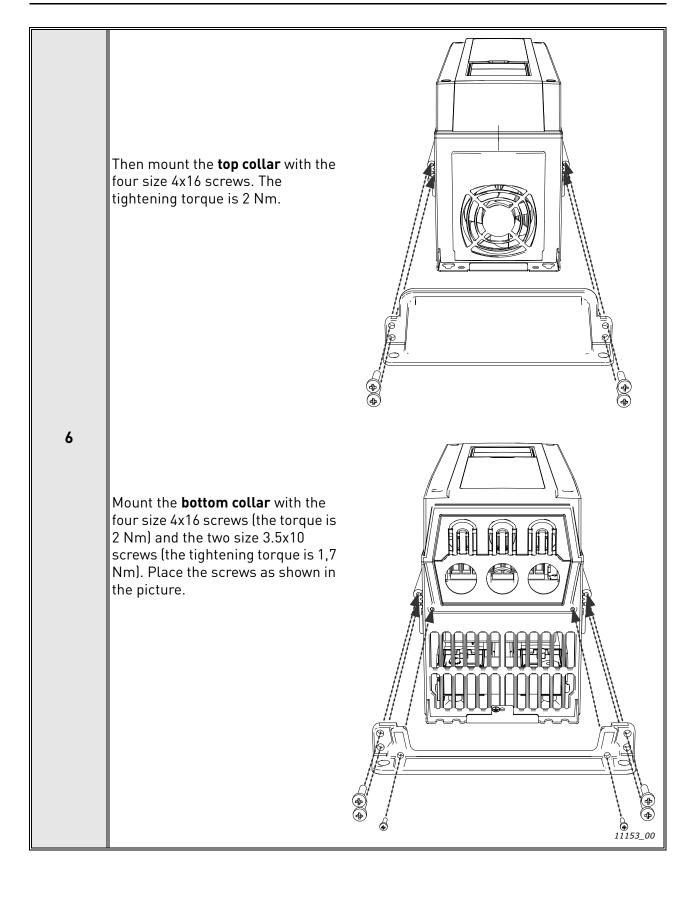
If your drive is IP21/Type1-protected and there is the risk that dust or other impurities in the cooling air might end up inside the control unit, start the mounting with actions described in steps 1 to 4.

If this is not needed, install the flange mounting kit proceeding directly to step 5. Note, in this case the rear will not be according to the IP54/Type12.

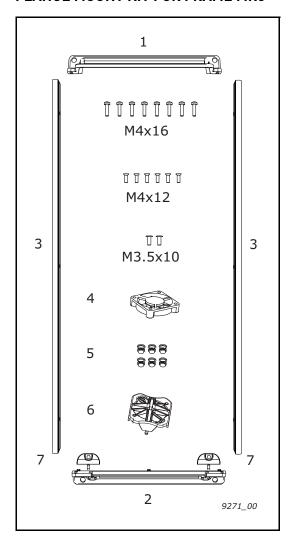








FLANGE MOUNT KIT FOR FRAME MR6



The parts needed in the installation:

- 1 = Top collar (70CMR00174)
- 2 = Bottom collar (70CMR00173)
- 3 = Side collars, 2 pcs (70CMR00145)
- 4 = Internal fan (70CPE00056)
- 5 = Sealing plugs, 6 pcs (70CMR00324)
- 6 = Fan grille 50 mm (70CTC1102509)
- 7 = Additional fasteners, 2 pcs (70CTC1103801)

Additionally:

8 pcs screws, size 4x16 (for the top and bottom collar mounting)

6 pcs screws, size 4x12 (for the side collar mounting)

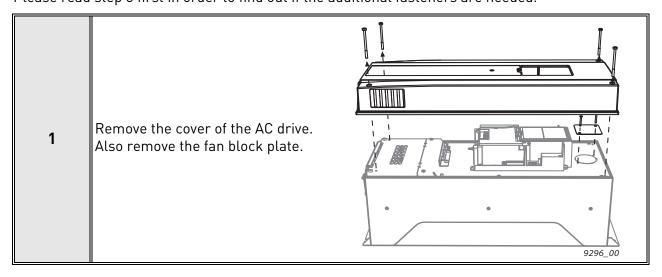
2 pcs screws, size 3.5x10 (for the bottom collar mounting)

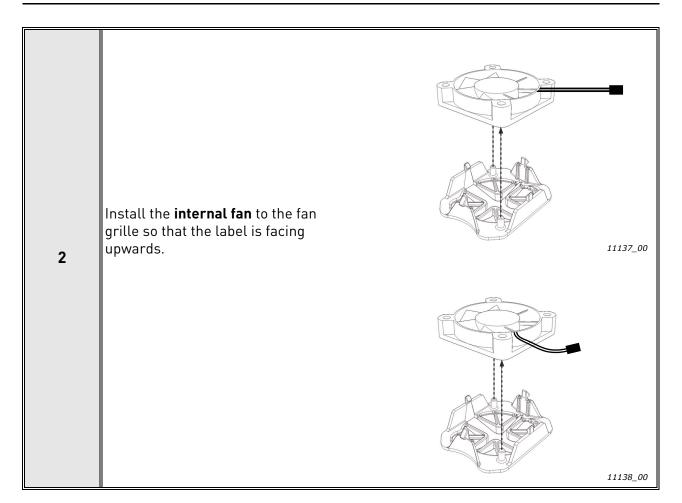
MR6 FLANGE MOUNTING

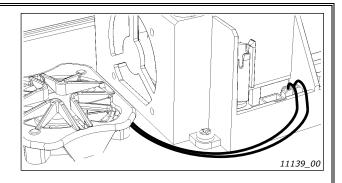
If your drive is IP21/Type1-protected and there is the risk that dust or other impurities in the cooling air might end up inside the control unit, start the mounting with actions described in steps 1 to 5.

If this is not needed, install the flange mounting kit proceeding directly to step 6. Note, in this case the rear will not be according to IP54/Type12.

Please read step 8 first in order to find out if the additional fasteners are needed.





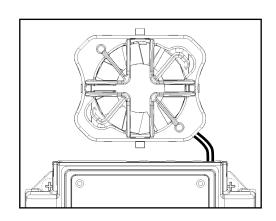


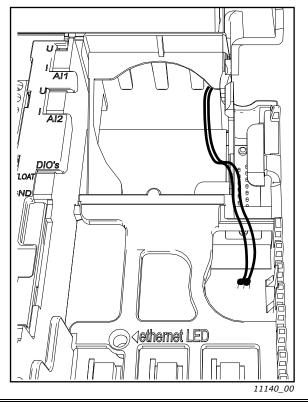
Install the **internal fan** and the fan grille assembly to the frame. **NOTE!** The direction of the wire depends on the control unit.

Then insert the power connector of the internal fan to the power terminal.

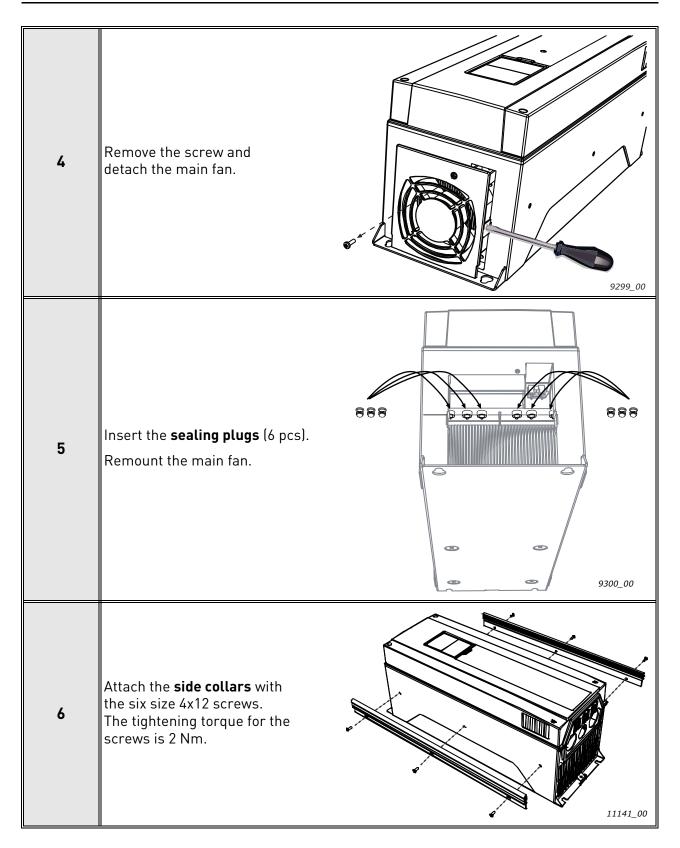
NOTE! The location of the power connector depends on the control unit.

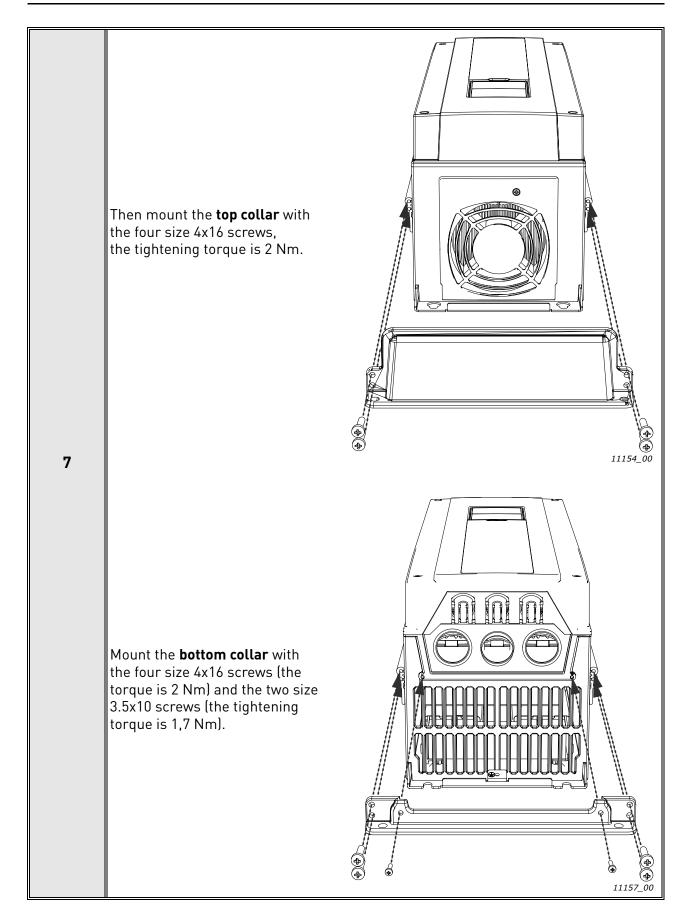
Remount the drive cover.

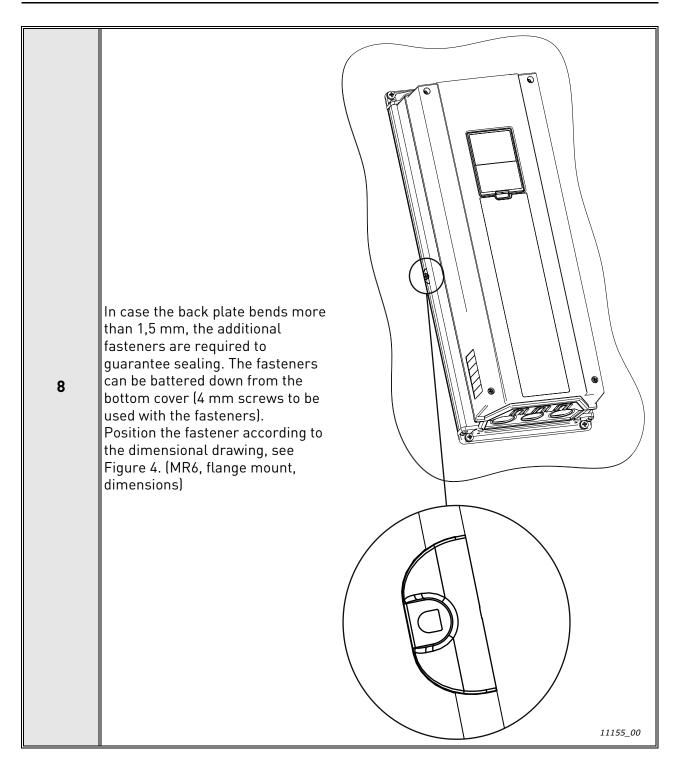




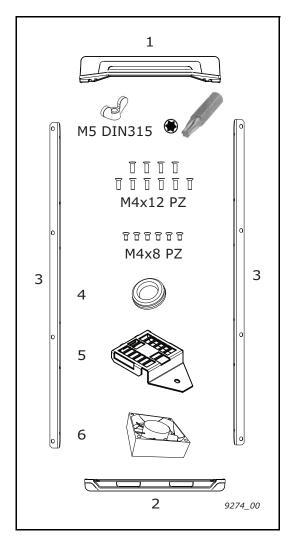
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FLANGE MOUNT KIT FOR FRAME MR7



The parts needed in the installation:

- 1 = Top collar (70CMC00343)
- 2 = Bottom collar (70CMC00344)
- 3 = Side collars, 2 pcs (70CMC00345)
- 4 = Bushing rubber (MC00016)
- 5 = Fan grille (70CTC1102699)
- 6 = Internal fan (70CPE00173)

Additionally:

10 pcs screws, size M4x12 PZ (for mounting the side, top and bottom collars)

6 pcs screws, size M4x8 PZ (for mounting the side collars)

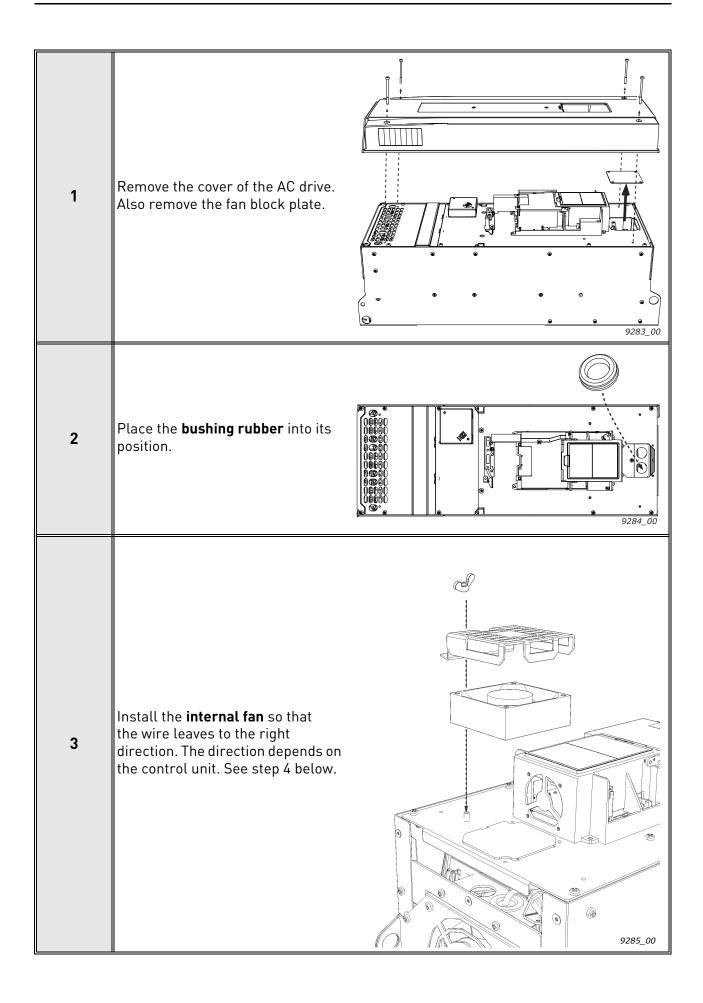
1 pcs wing nut, size M5 DIN315 (for mounting the fan grille)

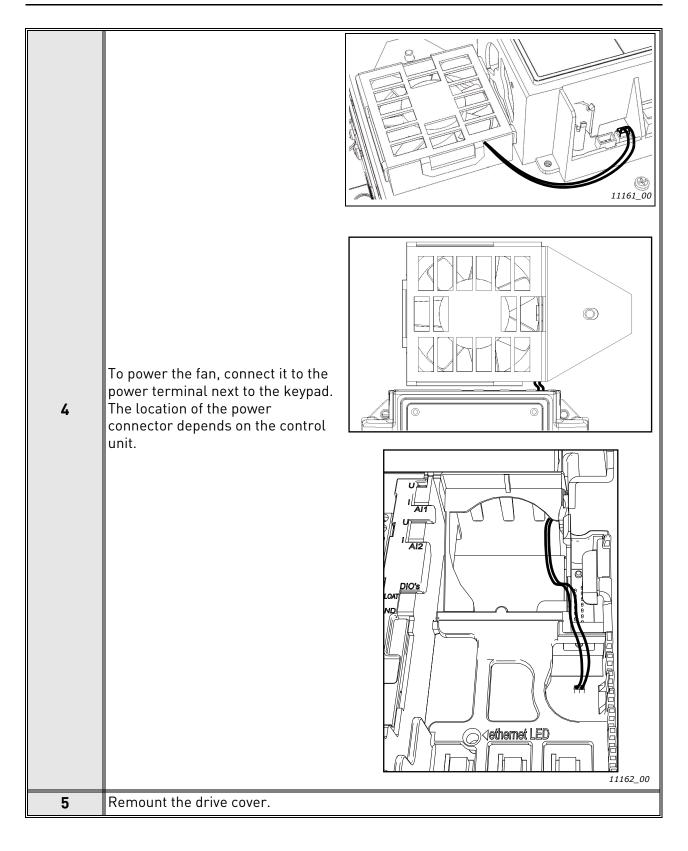
1 pcs torx head (for removing screws. See step 6.)

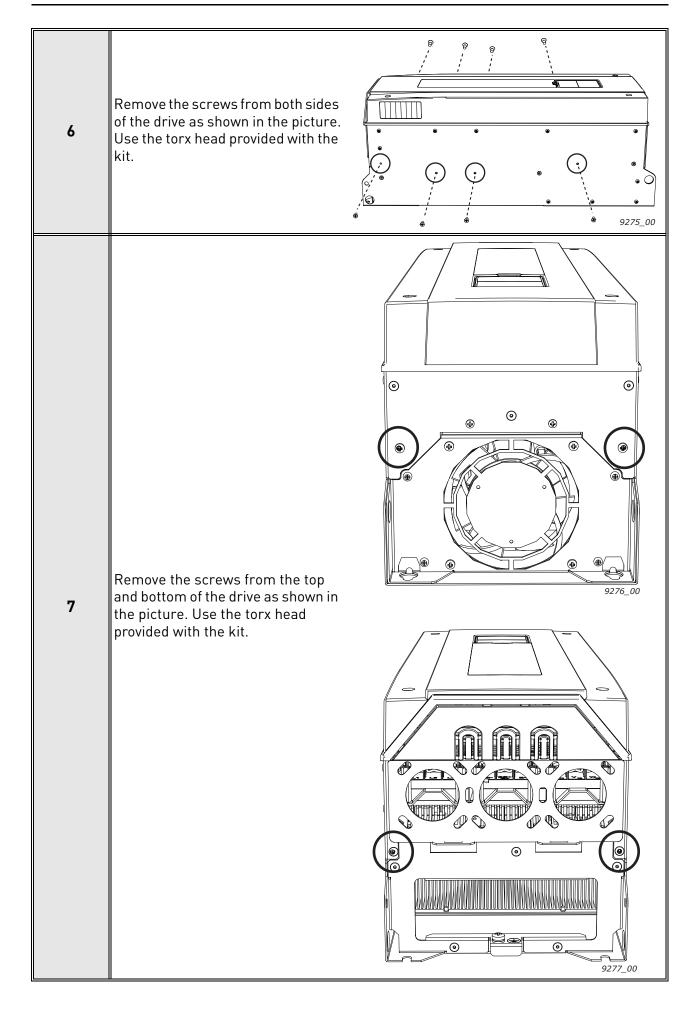
MR7 FLANGE MOUNTING

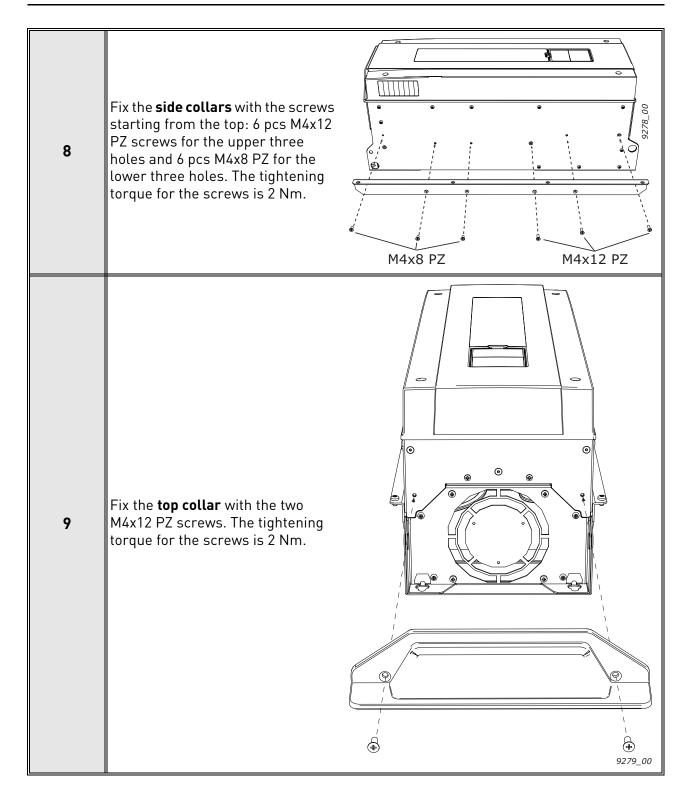
If your drive is IP21/Type1-protected and there is the risk that dust or other impurities in the cooling air might end up inside the control unit, start the mounting with actions described in steps 1 to 5.

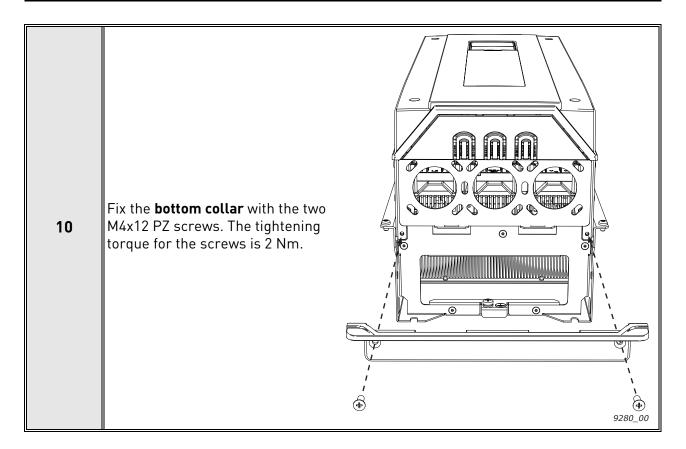
If this is not needed, install the flange mounting kit proceeding directly to step 6. Note, in this case the rear will not be according to the IP54/Type12.











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