Supplement Flange mounting kit installation





List of related manuals

Drive hardware manuals and guides	Code (English)
Flange mounting kit installation supplement	3AXD50000019100
Flange mounting kit quick installation guide for ACS880-01 and ACS580-01, ACH580-01 frames R6 to R9	3AXD50000019099
ACS880-01 hardware manual	3AUA0000078093
ACS880-01 +P940 drives for cabinet installation supplement	3AUA0000145446
ACS580-01 hardware manual	3AXD50000018826
ACS580-01 quick installation and start-up guide for frames R6 to R9	3AXD50000009286

You can find manuals and other product documents in PDF format on the Internet. See section *Document library on the Internet* on the inside of the back cover. For manuals not available in the Document library, contact your local ABB representative.

The QR code below opens an on-line listing of the manuals applicable to the product.



ACS880-01 manuals



ACS580-01 manuals

Supplement

Flange mounting kit installation

Table of contents



3. Mechanical installation



Table of contents

st of related manuals
. Introduction to the supplement
ontents of this chapter 7 pplicability 7 afety instructions 7 arget audience 7 urpose of the supplement 7 ontents of the manual 8 elated documents 8
. Hardware description
ontents of this chapter
. Mechanical installation
ontents of this chapter 11 afety 11 xamining the installation site 12 dditional requirements for cabinet installations 12 ecessary tools 12 oving the drive 12 npacking and examining the delivery (frames R6 to R9) 13 Transport package contents 13 Flange mounting kit package contents 14 Example mounting template 14 stalling the drive 15 Free space requirements 15 Installing drives above one another 16 stallation procedure 17
. Dimension drawings
ontents of this chapter
urther information
roduct and service inquiries





Introduction to the supplement

Contents of this chapter

This chapter describes the supplement.

Applicability

This supplement applies to ACS880-01 drive flange mounting kit (option +C135) and to ACS580-01 and ACH580-01 drive flange mounting kits.

Safety instructions

Obey the general safety instructions in the hardware manual and the task specific instructions in this supplement.

Target audience

This supplement is intended for people who plan the installation and install the drive with the flange mounting kit. Read the supplement before you work on the drive. You are expected to know the fundamentals of electricity, wiring, electrical components and electrical schematic symbols.

The supplement is written for readers worldwide. Both SI and imperial units are shown.

Purpose of the supplement

This supplement tells you how to install the drive mechanically onto an opening in a mounting plate with the flange mounting kit.

Contents of the manual

The chapters of the supplement are briefly described below.

Introduction to the supplement introduces the supplement.

Hardware description describes the flange mounting kit.

Mechanical installation describes how to install the drive with the flange mounting kit mechanically.

Dimension drawings contains dimension drawings of the flange mounting kit.

Related documents

See List of related manuals on the inside of the front cover.



Hardware description

Contents of this chapter

This chapter describes the flange mounting kit.

Product overview

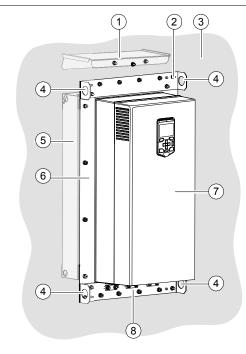
The flange mounting kit contains brackets for attaching the drive onto a mounting plate so that the heat sink of the drive is in the cooling air channel and the front part on the other side of the mounting plate.

The flange mounting kit is a plus code option (+C135) or can be ordered with these ordering codes also as retrofit.

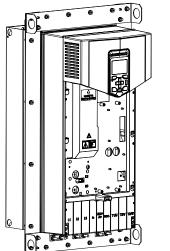
Frame size	Ordering code
R6	3AXD50000018852
R7	3AXD50000018853
R8	3AXD50000018854
R9	3AXD50000018855

The kit parts can be attached to the drive module with no front cover (option +P940) or to the drive with front cover but without the cable entry box. With option +C135, the drive is always delivered without the cable entry box.

Layout



- 1 Hood (for UL type 12)
- 2 Top flange bracket
- 3 Mounting plate
- 4 Lifting hole
- 5 Drive heat sink in the cooling air channel
- 6 Side flange bracket
- 7 Drive front side
- 8 Bottom flange bracket



Flange mounted – Drive with front cover

Flange mounted – Drive module without front cover and cable entry box



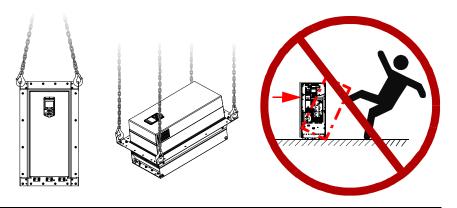
Mechanical installation

Contents of this chapter

This chapter describes how to install the drive with the flange mounting kit mechanically.

Safety

WARNING! For frame sizes R6 to R9: Use the lifting eyes of the drive when you lift the drive. Do not tilt the drive. The drive is heavy and its center of gravity is high. An overturning drive can cause physical injury.





Examining the installation site

Make sure that the installation site agrees with these requirements:

- The installation site has sufficient ventilation to prevent overheating of the drive. See section Losses, cooling data and noise in the hardware manual for the required air flow in the cooling air channel and in the front part of the drive.
- The operation conditions of the drive agree with the specifications in section Ambient conditions in the hardware manual.
- The mounting plate is vertical, not flammable and strong enough to hold the weight of the drive module.
- The material below the installation is not flammable.
- There is enough free space above and below the drive for cooling air flow, service and maintenance. There is enough free space in front of the drive for operation, service and maintenance. See section Dimensions, weights and free space requirements in the hardware manual.

Additional requirements for cabinet installations

Make sure that the cooling air gratings of the drive will not be covered. Make sure that the required cooling air change is achieved. In totally closed cabinet with no forced ventilation, a fan for cycling the air inside the cabinet may be needed.

Necessary tools

- Drill and drill bits
- Screwdriver (T20, T25, T30) and/or wrench with bits (10 mm)

Moving the drive

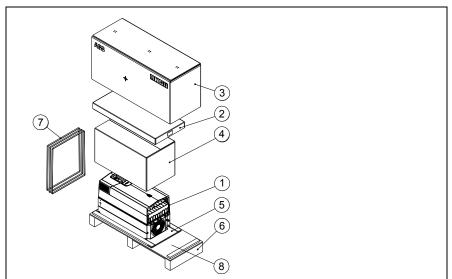
Move the transport package by pallet truck to the installation site.



Unpacking and examining the delivery (frames R6 to R9)

Transport package contents

This illustration shows the layout of the drive module package with option +C135. In other deliveries, the kit package is tied with straps onto the drive package or sent separately. Examine that all items are present and there are no signs of damage. Read the data on the type designation label of the drive to make sure that the drive is of the correct type.



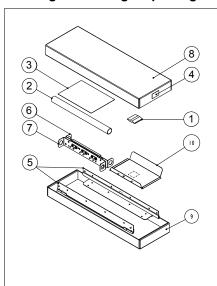
Item	Description	Item	Description
1	Drive with factory installed options	5	Pallet tray
2	Flange mounting kit	6	Pallet
3	Cardboard cover	7	Straps
4	Pallet stopper	8	Printed manuals and quick guides and manuals CD and multilingual residual voltage warning sticker

To unpack:

- Cut the straps.
- Remove the top cardboard cover.
- Attach lifting hooks to the lifting eyes of the drive. Lift the drive with a hoist.



Flange mounting kit package contents

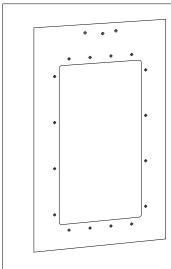


1	Screw package:	
	M6 nut (15 pcs)	
	• M6×10 T30 (12 pcs)	
	• M6×25 T25 (18 pcs)	
	K40×12 (3 pcs used for frames	
	R4 and R5 only)	
2	Mounting template	
3	Quick guide	
4	Option kit package label	
5	Side bracket	
6	Top bracket	
7	Bottom bracket	
8	Top cardboard cover	
9	Cardboard tray	
10	Hood	



Example mounting template

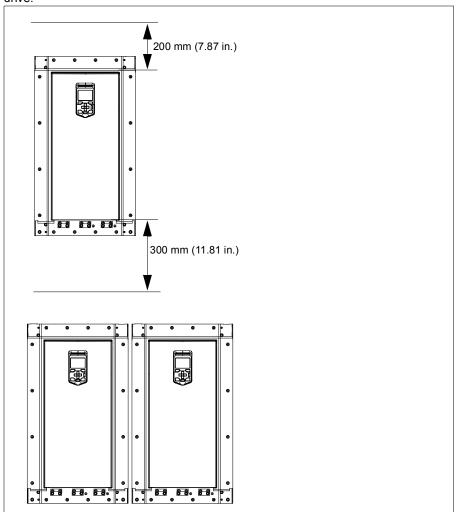
The flange mounting kit package includes a template in actual size for drilling the attaching holes and cutting the hole in the mounting plate. Remove the template after the holes have been made. An example template is shown below.



Installing the drive

Free space requirements

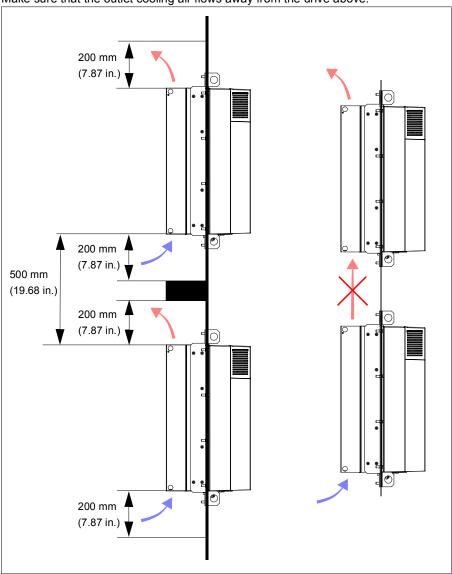
The flange-mounted drives can be installed side by side. 200 mm (7.87 in.) free space is required at the top of the drive and 300 mm (11.81 in.) at the bottom of the drive.





Installing drives above one another

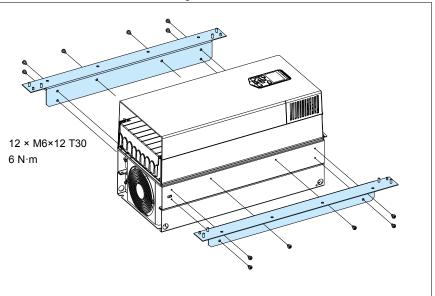
Make sure that the outlet cooling air flows away from the drive above.



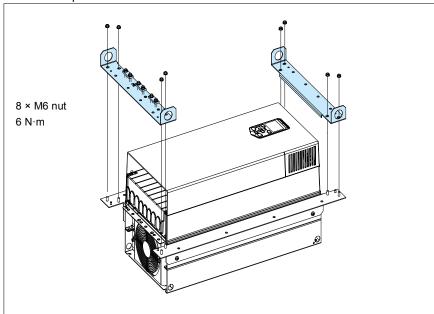


Installation procedure

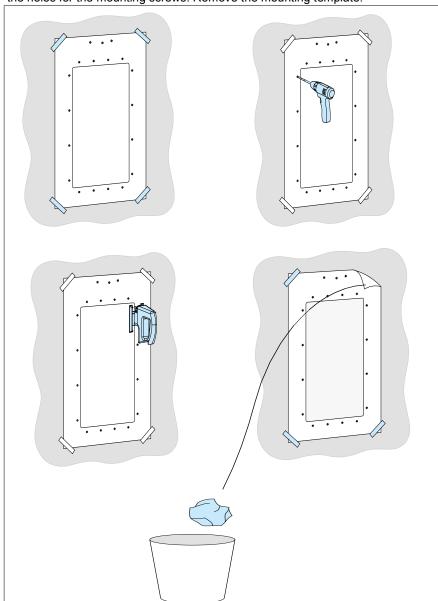
1. Attach the side brackets of the flange to the drive.



2. Attach the top and bottom brackets.

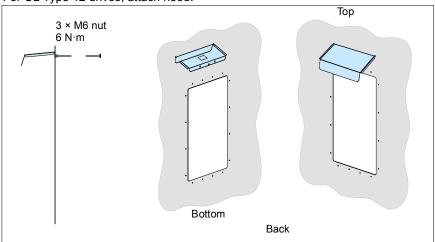


3. See chapter *Dimension drawings* for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate. Make the opening and drill the holes for the mounting screws. Remove the mounting template.

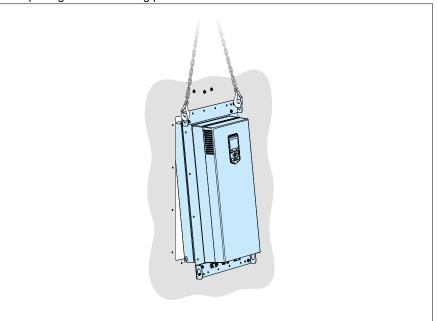




4. For UL Type 12 drives, attach hood.

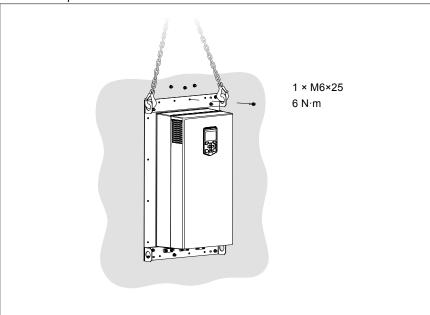


5. Attach chains to the drive lifting holes and lift the drive with a lifting device onto the opening in the mounting plate.



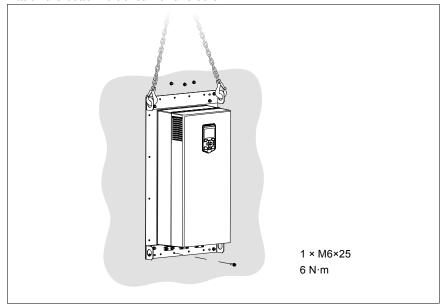


6. Attach the top bracket with one screw.

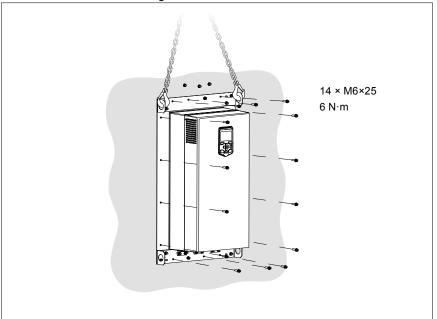




7. Attach the bottom bracket with one screw.









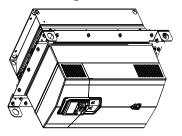


Dimension drawings

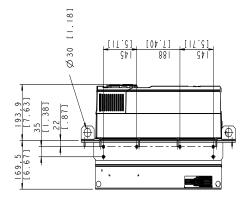
Contents of this chapter

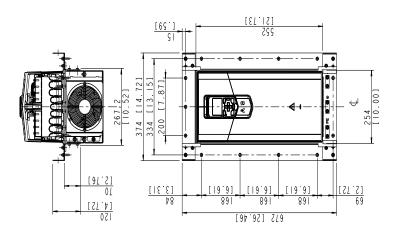
This chapter contains the dimension drawings of the flange mounting kits and required openings in the mounting plate.

Flange mounting kit for frame R6

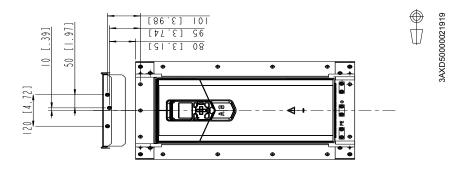


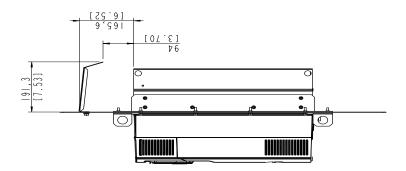


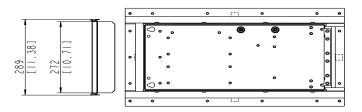




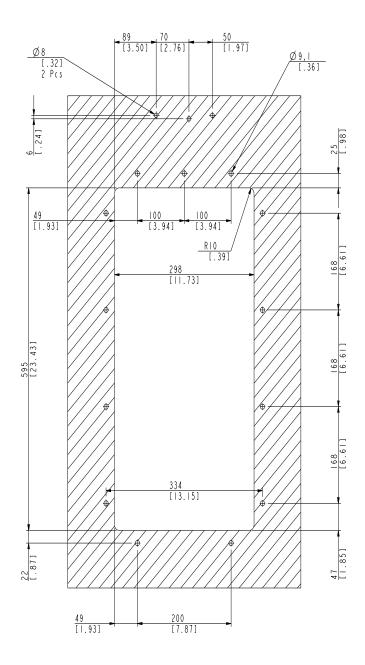
Hood is needed for UL Type 12 drives



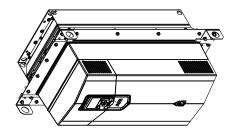




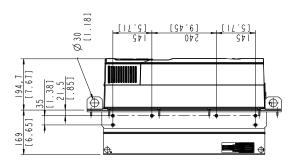
Attaching points and hole dimensions for frame R6

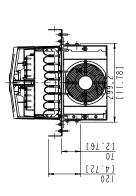


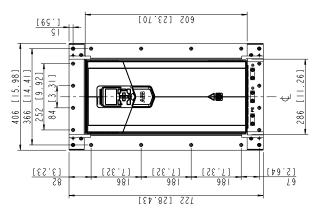
Flange mounting kit for frame R7



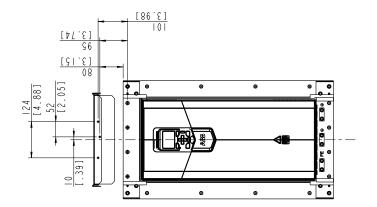




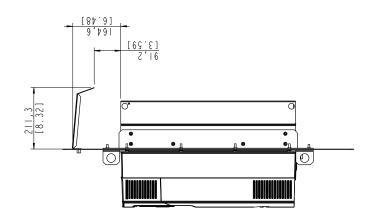


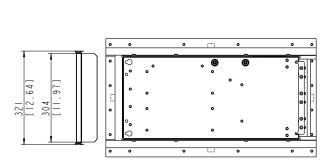


Hood is needed for UL Type 12 drives

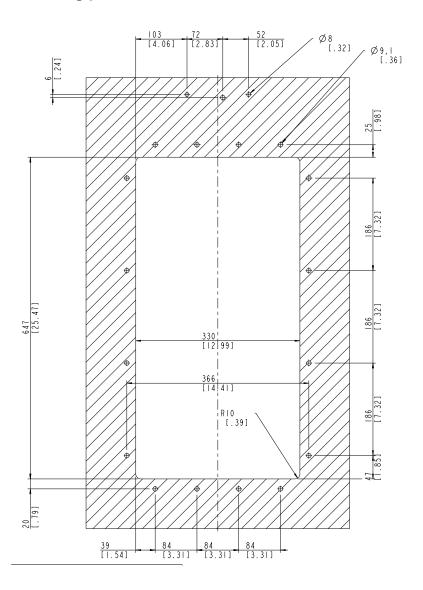




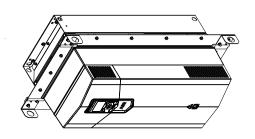




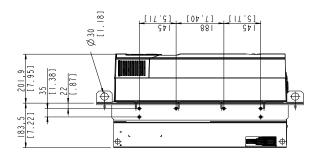
Attaching points and hole dimensions for frame R7

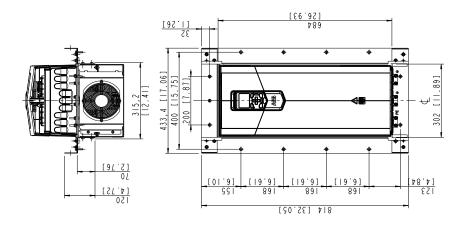


Flange mounting kit for frame R8

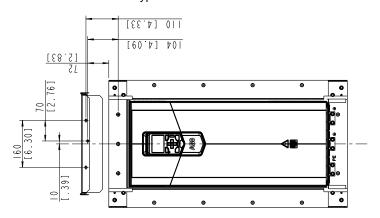


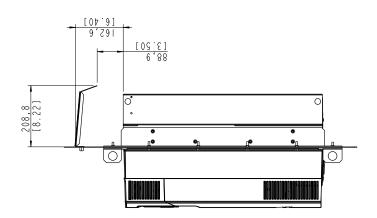


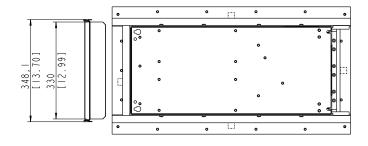




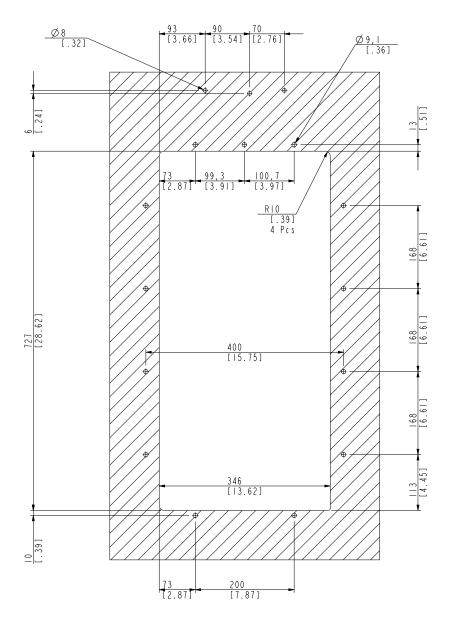
Hood is needed for UL Type 12 drives



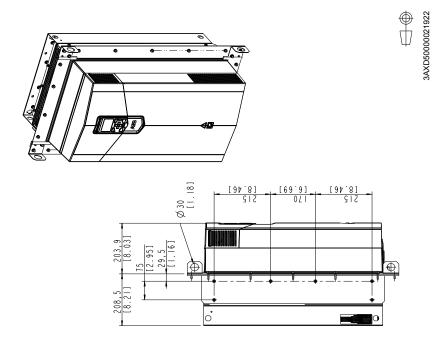


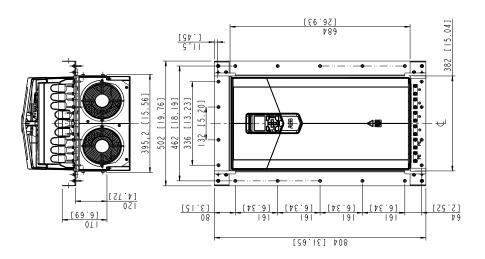


Attaching points and hole dimensions for frame R8

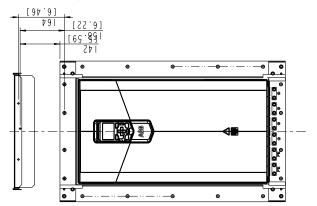


Flange mounting kit for frame R9



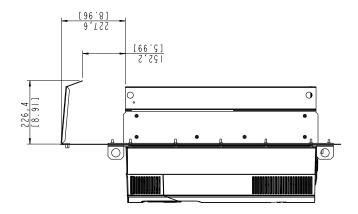


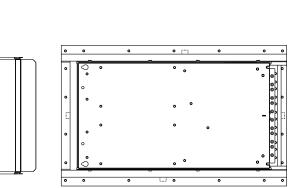
Hood is needed for UL Type 12 drives

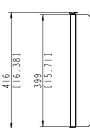




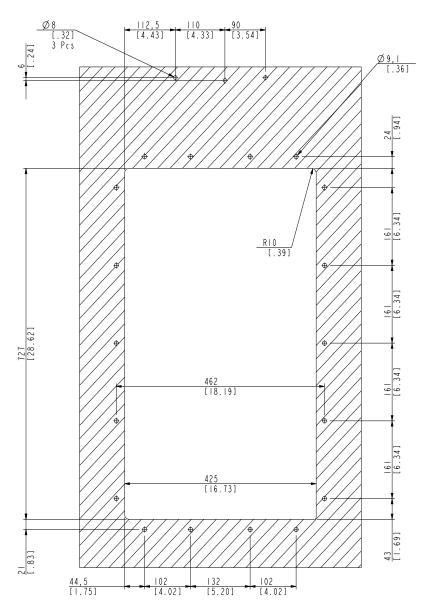
3AXD50000021922







Attaching points and hole dimensions for frame R9



Further information

Product and service inquiries

Address any inquiries about the product to your local ABB representative, quoting the type designation and serial number of the unit in question. A listing of ABB sales, support and service contacts can be found by navigating to www.abb.com/searchchannels.

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