Supplement Flange mounting kit installation



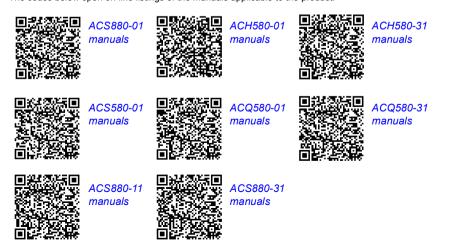


List of related manuals

Drive hardware manuals and guides	Code (English)	Note
Flange mounting kit installation supplement	3AXD50000019100	
Flange mounting kit quick installation guide for ACX580-01 frames R0 to R5	3AXD50000036610	(type codes ACX580-01-02A6- 4, ACX580-01- 03A3-4, etc.)
Flange mounting kit quick installation guide for ACX580-01 frames R1 to R3	3AXD50000119172	(type codes ACX580-01-02A7- 4, ACX580-01- 03A4-4, etc.)
Flange mounting kit quick installation guide for ACS880-01 frames R1 to R3	3AXD50000026158	
Flange mounting kit quick installation guide for ACS880-01 frames R4 to R5	3AXD50000026159	
Flange mounting kit quick installation guide for ACS880-01 and ACX580-01 frames R6 to R9	3AXD50000019099	
ACS880-01 hardware manual	3AUA0000078093	
ACS880-01 quick installation guide for frames R1 to R3	3AUA0000085966	
ACS880-01 quick installation guide for frames R4 and R5	3AUA0000099663	
ACS880-01 quick installation guide for frames R6 to R9	3AUA0000099689	
ACS580-01 hardware manual	3AXD50000018826	
ACS580-01 quick installation and start-up guide for frames R6 to R9	3AXD50000009286	
ACH580-01 (0.75 to 250 kW) hardware manual	3AUA0000076331	
ACH580-01 quick installation and start-up guide	3AUA0000076330	
ACQ580-01 (0.75 to 250 kW) hardware manual	3AXD50000035866	
ACQ580-01 quick installation and start-up guide for frames R0 to R5	3AXD50000035755	
ACQ580-01 quick installation and start-up guide for frames R6 to R9	3AXD50000037301	

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 codes below open on-line listings of the manuals applicable to the product.



Supplement

Flange mounting kit installation

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 Mechanical installation for ACS580-01, ACH580-01 and ACQ580-01



5. Mechanical installation for ACS880-11 and ACS880-31



6. Mechanical installation for ACH580-31 and ACQ580-31



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Introduction to the supplement

Contents of this chapter

This chapter describes the supplement.

Applicability

This supplement applies to the following flange mounting kits:

- ACS880-01 drive (frames R1 to R9)
- ACS880-11 and ACS880-31 drives (frames R3, R6, and R8)
- ACS580-01, ACH580-01 and ACQ580-01 drives (frames R0 to R9)
- ACH580-31 and ACQ580-31 drives (frames R3, R6 and R8).

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 for ACS880-01, Mechanical installation for ACS580-01. ACH580-01 and ACQ580-01, Mechanical installation for ACS880-11 and ACS880-31 and Mechanical installation for ACH580-31 and ACQ580-31 describe how to install the drive with the flange mounting kit mechanically.

Dimension drawings for ACS880-01, Dimension drawings for ACS580-01, ACH580-01 and ACQ580-01. Dimension drawings for ACS880-11 and ACS880-31 and Dimension drawings for ACH580-31 and ACQ580-31 contain dimension drawings of the flange mounting kit.

ACS880-01 mounting examples contains example drawings for the different frame sizes.

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. Cable boxes are not compatible with flange mounting kits.

Layout and mounting position

The flange-mounted drive is installed in a tilted (ACS880-01 frames R1 to R5 and ACS880-11, ACS880-31, ACH580-31 and ACQ580-31 frame R3) or an upright position.

Example: tilted position

5

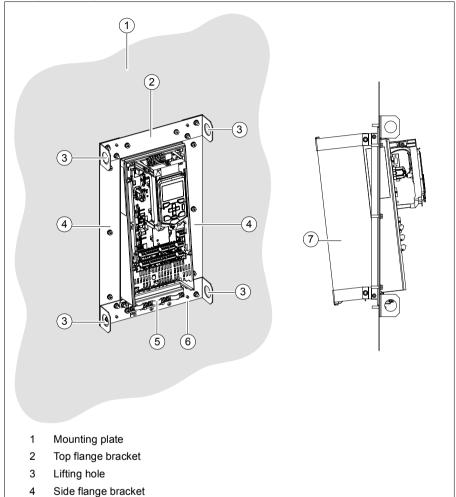
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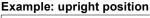
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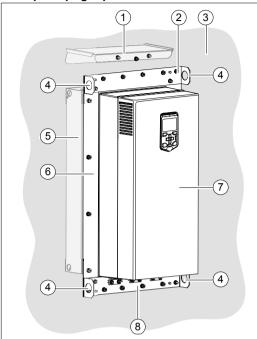
Cable shelf

Bottom flange bracket

Drive heat sink in the cooling air channel







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

Degree of protection

ACS880-01, ACS580-01, ACSH580-01 and ACQ580-01

The degree of protection of a flange-mounted IP21 drive is IP20 on the front side and IP55 on the backside. The degree of protection of a flange-mounted IP55 drive is IP55 on both the front side and the backside.

ACS880-11, ACS880-31, ACH580-31 and ACX580-31

The degree of protection of a flange-mounted IP20 drive is IP20 on the front side and IP55 on the backside. The degree of protection of a flange-mounted IP21 drive is IP21 on the front side and IP55 on the backside. The degree of protection of a flangemounted IP55 drive is IP55 on both the front side and the backside.

Special requirements

With some frame sizes, you must insert a sealing plug into the drive. Also with some degrees of protection, you must not leave the drive cover in place. See the tables for more information.

Frame size	ACS580-01 IP21 ACH580-01 IP21 ACQ580-01 IP21	ACS580-01 IP55 ACH580-01 IP55 ACQ580-01 IP55
R0	Delivered with cover.	
R1	Insert sealing plug.	
R2	Demonstration of the second sections of the section sections of the section sections of the section sections of the section section sections of the section section section sections of the section section section sections of the section sect	Delivered with cover.
R3	Remove cover or order internal fan (sold separately).	Insert sealing plug.
R4	Exception: In dry environment, you can leave the cover in place without inserting a sealing plug.	You can leave the cover in place.
R5	Delivered with cover. You can leave the cover in place.	
R6		
R7	Delivered with cover. You can leave	
R8	the cover in place.	-
R9		

Frame size	ACS880-01 IP20, IP21, IP55	
R1		
R2	Insert sealing plug.	
R3		
R4	Insert sealing plug and attach sealing tapes.	
R5	insert sealing plug and attach sealing tapes.	
R6		
R7		
R8	-	
R9		

Frame size	ACS880-11, ACS880-31, ACH580-31, ACQ580-31 (IP21, IP55)
R3	-
R6	Attach gasket.
R8	

Ordering codes

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

This table applies to ACS580-01 R0 frame types -02A6-4, -03A3-4, -04A0-4 and -05A6-4 and ACS580-01 R1 frame types -07A2-4, -09A4-4 and -12A6-4.

Frame size	Ordering code ACS580-01, ACH580-01, ACQ580-01	Ordering code ACS880-01
R0	3AXD50000031455 (IP21 and IP55)	
R1	3AXD50000031456 (IP21 and IP55)	3AXD50000024175 (IP20 and IP21)
R2	3AXD50000031457 (IP21 and IP55)	3AXD50000024176 (IP20 and IP21)
R3	3AXD50000031458 (IP21 and IP55)	3AXD50000024177 (IP20 and IP21)
R4	3AXD50000031460 (IP21 and IP55)	3AXD50000027190 (IP20 and IP21)
R5	3AXD50000031461 (IP21 and IP55)	3AXD50000018602 (IP20 and IP21)
R6	3AXD50000018852 (IP21)	3AXD50000018852 (IP20 and IP21)
R7	3AXD50000018853 (IP21)	3AXD50000018853 (IP20 and IP21)
R8	3AXD50000018854 (IP21)	3AXD50000018854 (IP20 and IP21)
R9	3AXD50000018855 (IP21)	3AXD50000018855 (IP20 and IP21)

Frame size	ACS580-01, ACH580-01, ACQ580-01 drive type	Ordering code
R1	ACS580-01-02A7-4	3AXD50000105311
R1	ACS580-01-03A4-4	3AXD50000105311
R1	ACS580-01-04A1-4	3AXD50000105311
R1	ACS580-01-05A7-4	3AXD50000105311
R1	ACS580-01-07A3-4	3AXD50000105311
R1	ACS580-01-09A5-4	3AXD50000105311
R1	ACS580-01-12A7-4	3AXD50000105311
R2	ACS580-01-018A-4	3AXD50000105328
R2	ACS580-01-026A-4	3AXD50000105328
R3	ACS580-01-033A-4	3AXD50000105335
R3	ACS580-01-039A-4	3AXD50000105335
R3	ACS580-01-046A-4	3AXD50000105335

Frame size	Ordering code ACS880-11	code ACS880-11 Ordering code ACS880-31	
R3	3AXD50000181018	3AXD50000181018	
R6	3AXD50000179633	3AXD50000179633	

Frame size	Ordering code ACS880-11	Ordering code ACS880-31
R8	3AXD50000164318	3AXD50000164318

Frame size	Ordering code ACH580-31	Ordering code ACQ580-31	
R3	3AXD50000181018	3AXD50000181018	
R6	3AXD50000179633	3AXD50000179633	
R8	3AXD50000164318	3AXD50000164318	

Note for ACS880-01: The separately ordered flange retrofit is kit compatible only with drives that have been produced after 2016-01-01.



Mechanical installation for ACS880-01

Contents of this chapter

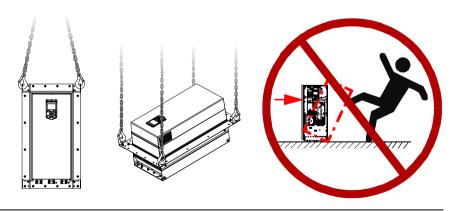
This chapter describes how to install the drive with the flange mounting kit mechanically.



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.

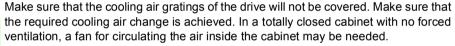


Examining the installation site

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 Free space requirements on page 28 and Dimensions, weights and free space requirements in the hardware manual.

Additional requirements for cabinet installations



Necessary tools

- Drill and drill bits
- Screwdriver

Moving the drive

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



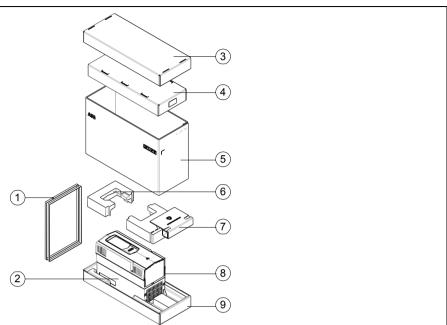
Unpacking and examining the delivery

Transport package contents

The flange mounting kit package is either in the drive package, 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.



Frames R1 to R5



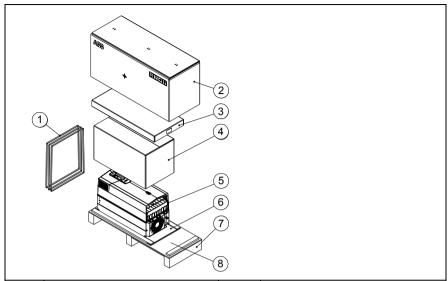


	•			
Item	Description	Item	Description	
1	Straps	5	Cardboard sleeve	
2	Printed manuals and quick guides, manuals CD and multilingual residual voltage warning stickers	67	Cushions	
3	Cardboard cover	8	Drive with factory installed options	
4	Flange mounting kit	9	Cardboard tray	

To unpack:

- Cut the straps (1).
- Remove the top cardboard cover (3), lift the flange mounting kit (4), and remove the cushions (6...7).
- Lift the cardboard sleeve (5).
- Lift the drive (8).

Frames R6 to R9



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

To unpack:

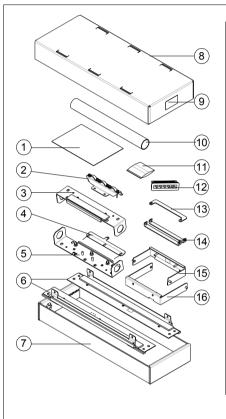
- Cut the straps (1).
- Remove the cardboard cover (2).
- Lift the flange mounting kit (3).
- Remove the cardboard sleeve (4).
- Attach lifting hooks to the lifting eyes of the drive (5). Lift the drive with a hoist.



Flange mounting kit package contents

The illustrations show the layout of the flange mounting kit packages. Examine that all items are present and there are no signs of damage.

Frames R1 to R3

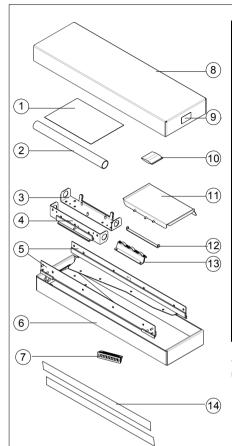


1	Quick guide
2	Cable shelf
3	Top bracket
4	Grounding plate
5	Bottom bracket
6	Side brackets
7	Cardboard tray
8	Top cardboard cover
9	Option kit package label
10	Mounting template
11	Screw package:
	• M5 nut (4 pcs)
	 M6 nut (17 pcs) *
	 M5×20 screw (4 pcs)
	• M6×25 screw (10 pcs)
	M5×25 T20 screw (1 pcs)
	• M5×50 T20 (2 pcs)
12	Sealing plug
13	Sealing plate
14	Tightening brackets
15	Bottom U-bracket
16	Top U-bracket

^{*} The delivery does not include the Rivet or Kalei nuts for the M6 screws.



Frames R4 to R5

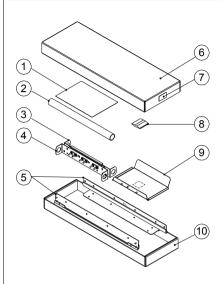


1	Quick guide
2	Mounting template
3	Bottom bracket
4	Top bracket
5	Side brackets
6	Cardboard tray
7	Sealing plug
8	Top cardboard cover
9	Option kit package label
10	Screw package:
10	Screw package: • M6 nut (14 pcs) *
10	. •
10	• M6 nut (14 pcs) *
10	M6 nut (14 pcs) * M6×20 screw (2 pcs)
10	M6 nut (14 pcs) * M6×20 screw (2 pcs) M6×25 screw (13 pcs)
11	 M6 nut (14 pcs) * M6×20 screw (2 pcs) M6×25 screw (13 pcs) M6×10 T30 screw (R4: 6 pcs;
	 M6 nut (14 pcs) * M6×20 screw (2 pcs) M6×25 screw (13 pcs) M6×10 T30 screw (R4: 6 pcs; R5: 8 pcs)
11	 M6 nut (14 pcs) * M6×20 screw (2 pcs) M6×25 screw (13 pcs) M6×10 T30 screw (R4: 6 pcs; R5: 8 pcs) Hood (required for UL type 12)

 $^{^{\}star}$ The delivery does not include the Rivet or Kalei nuts for the M6 screws.



Frames R6 to R9



	T
1	Quick guide
2	Mounting template
3	Top bracket
4	Bottom bracket
5	Side brackets
6	Top cardboard cover
7	Option kit package label
8	Screw package:
	• M6 nut (11 pcs) *
	• M6×10 T30 (12 pcs)
	• M6×25 T25 (R6R8: 16 pcs,
	R9: 18 pcs)
9	Hood (required for UL type 12)
10	Cardboard tray

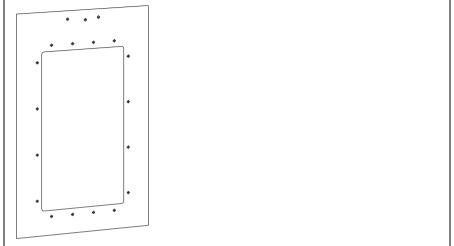
 $^{^{\}star}$ The delivery does not include the Rivet or Kalei nuts for the M6 screws.



Mounting template

The flange mounting kit package includes a template in actual size for drilling the mounting holes and cutting the holes in the mounting plate.

An example template is shown below.

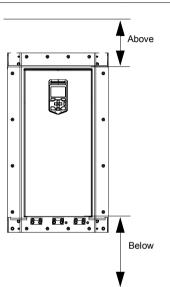




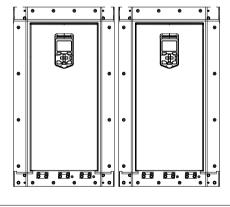
Installing the drive

Free space requirements

The flange-mounted drives can be installed side by side. For free space requirements above and below the drives, see the table.



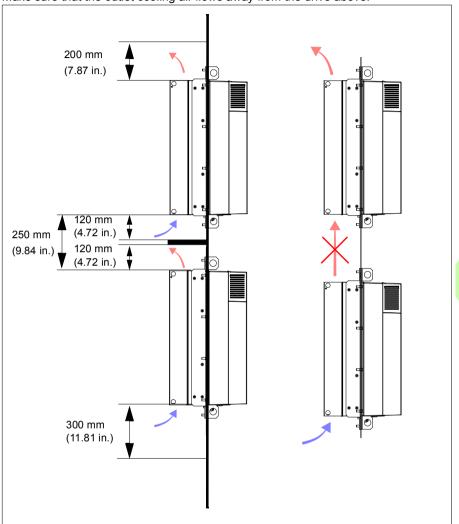
	ACS880-01				
Ab	Above		Below		
mm	in	mm	in		
-	-	-	-		
200	7.87	300	11.81		
200	7.87	300	11.81		
200	7.87	300	11.81		
200	7.87	300	11.81		
200	7.87	300	11.81		
200	7.87	300	11.81		
200	7.87	300	11.81		
200	7.87	300	11.81		
200	7.87	300	11.81		





Installing drives above one another

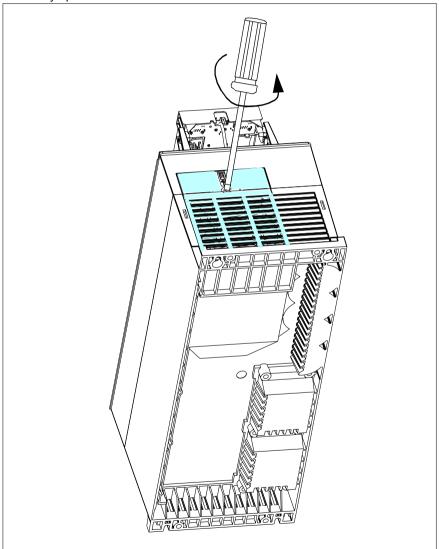
Make sure that the outlet cooling air flows away from the drive above.



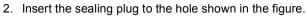
Installation procedure

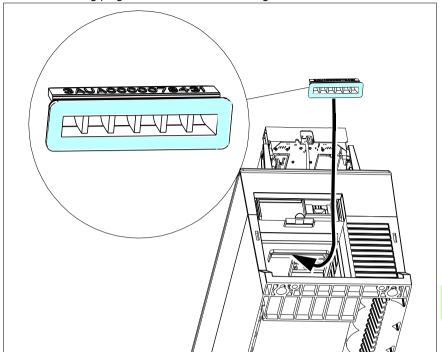
Frames R1 to R3

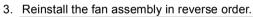
1. To remove the fan assembly, push the retaining clip with a flat screwdriver. Lift the assembly up.

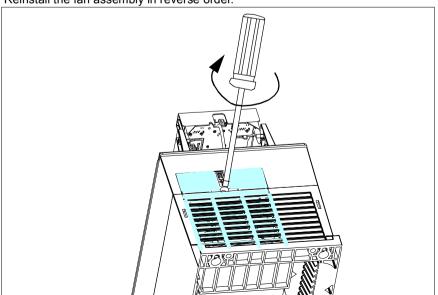






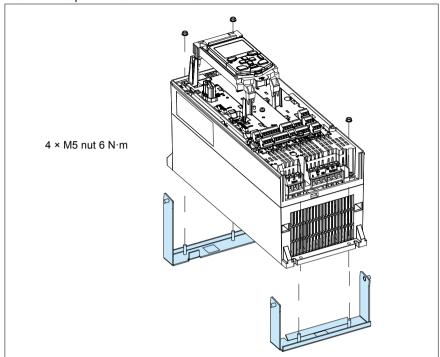






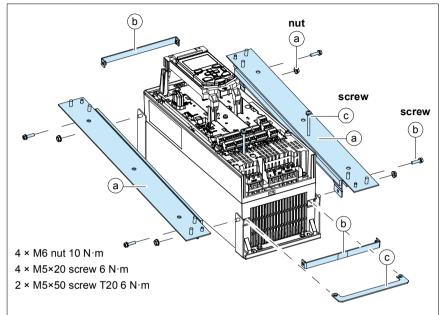


4. Attach the top and bottom U-brackets to the drive.



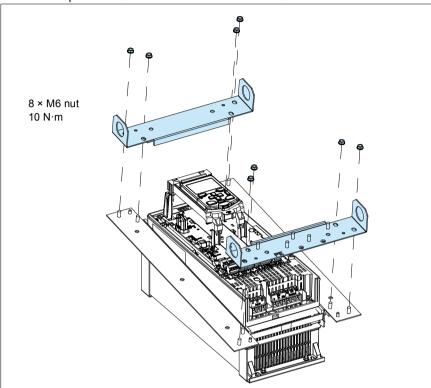


5. First attach the side brackets (a) to the top and bottom U-brackets with four M6 nuts. Then, attach the tightening brackets (b) to the both ends with four M5×20 screws. Last attach the sealing plate (c) to the bottom of the drive with two M5×50 screws T20.



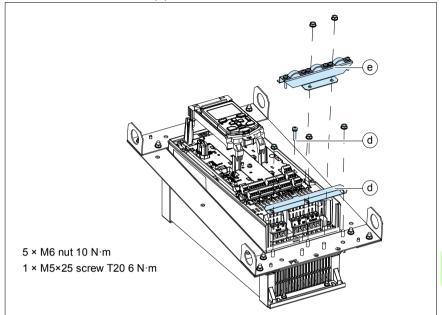


6. Attach the top and bottom brackets to the side brackets.





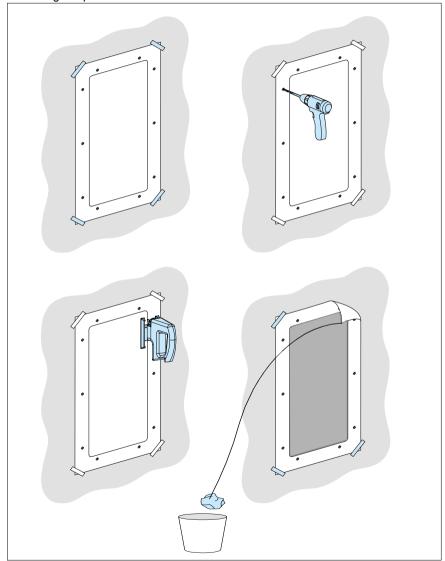
7. Push the grounding plate (d) to the alignment pins of the bottom bracket and fasten the plate to the drive with one M5×25 screw T20 and three M6 nuts. Then attach the cable shelf (e) to the bottom bracket with two M6 nuts.





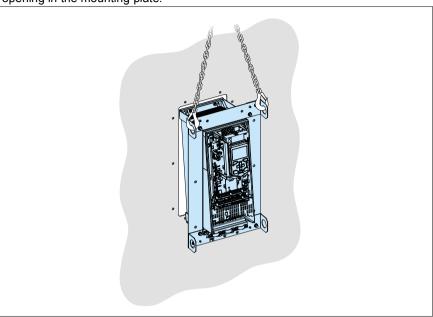
8. See chapter *Dimension drawings for ACS880-01* for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate.

Make the opening and drill the holes for the mounting screws. Consider the hole size for the Rivet or Kalei nuts (not included in the delivery). Remove the mounting template.

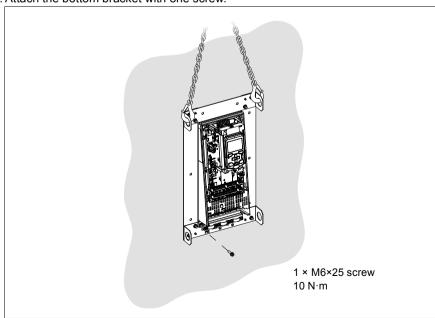




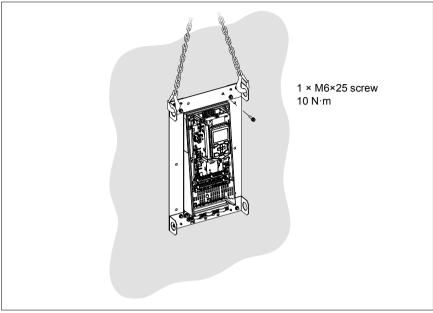
9. Attach chains to the drive lifting holes and lift the drive with a lifting device onto the opening in the mounting plate.



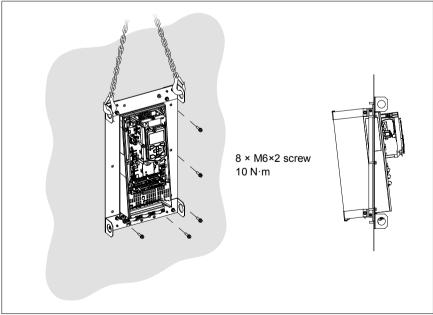
10. Attach the bottom bracket with one screw.



11. Attach the top bracket with one screw.



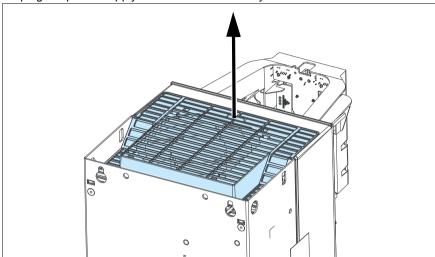
12. Attach the rest of the mounting screws. Remove the chains.



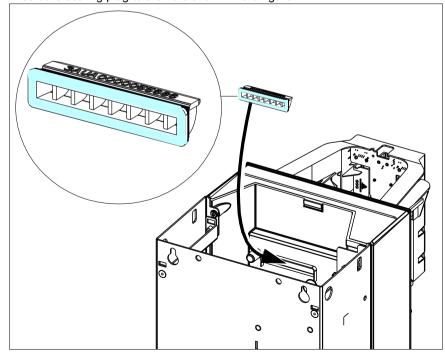


Frames R4 to R5

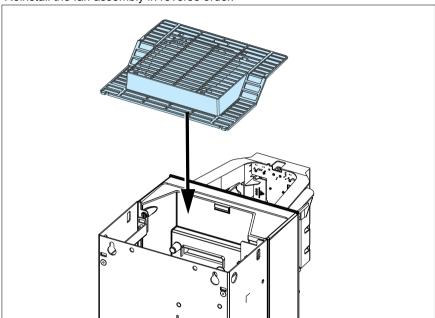
1. To remove the fan assembly, lift the fan mounting plate up from the front edge. Unplug the power supply wires. Lift the assembly off.



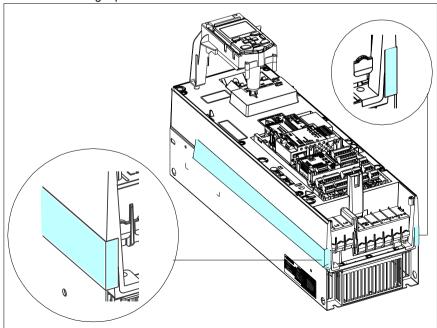
2. Insert the sealing plug to the hole shown in the figure.



3. Reinstall the fan assembly in reverse order.

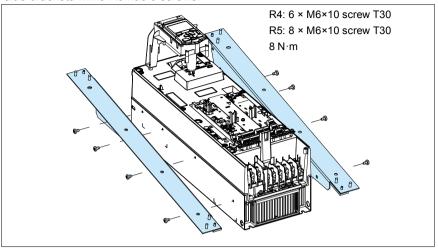


4. Attach the sealing tapes on **both** sides of the drive.

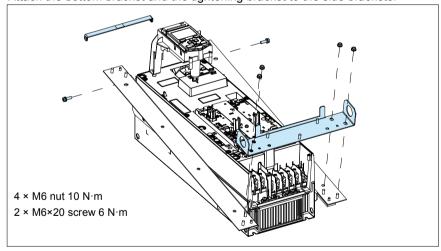




5. Attach the side brackets to the drive. Note that R4 has 6 screws for attaching the side brackets while R5 has 8 screws.

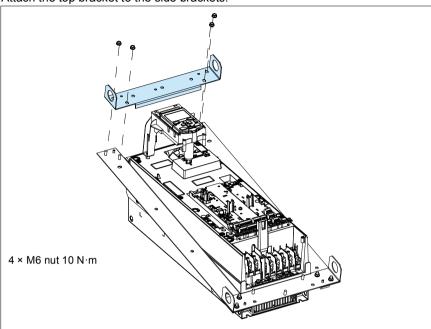


6. Attach the bottom bracket and the tightening bracket to the side brackets.

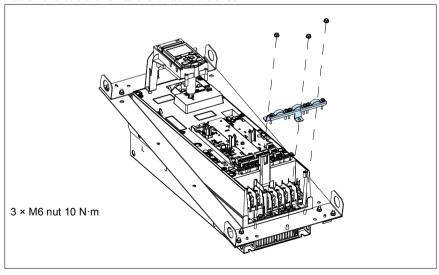




7. Attach the top bracket to the side brackets.



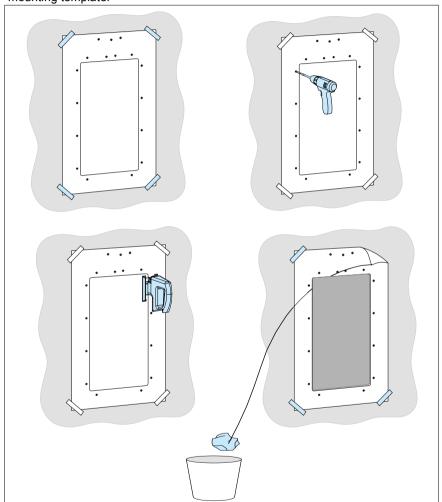
8. Attach the cable shelf to the bottom bracket.





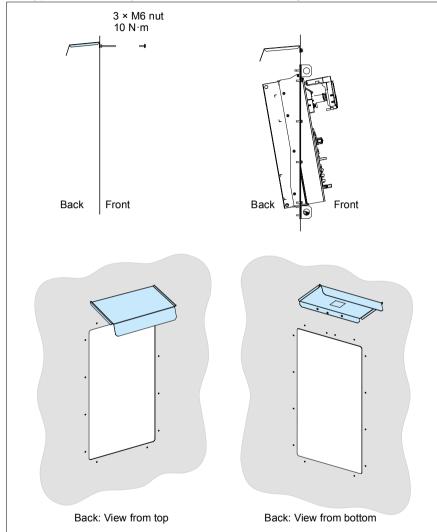
9. See chapter *Dimension drawings for ACS880-01* for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate.

Make the opening and drill the holes for the mounting screws. Consider the hole size for the Rivet or Kalei nuts (not included in the delivery). Remove the mounting template.



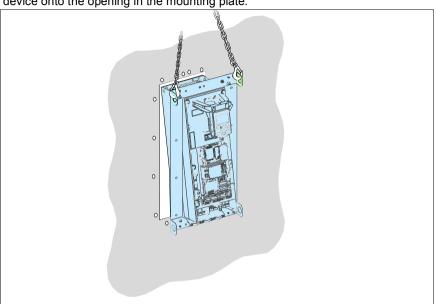


10. **UL Type 12 drives only:** Attach the hood to the cooling channel.

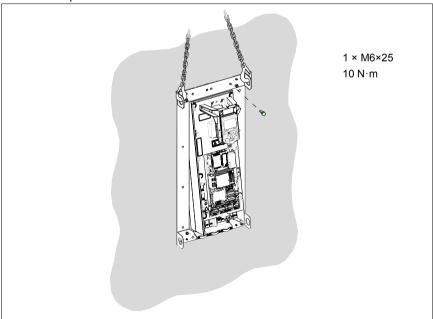




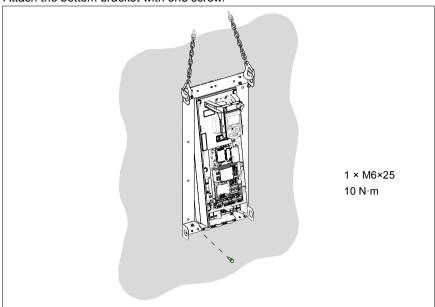
11. Attach the chains to the lifting holes of the flange and lift the drive with a lifting device onto the opening in the mounting plate.



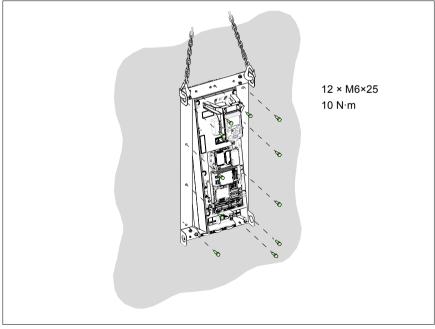
12. Attach the top bracket with one screw.



13. Attach the bottom bracket with one screw.



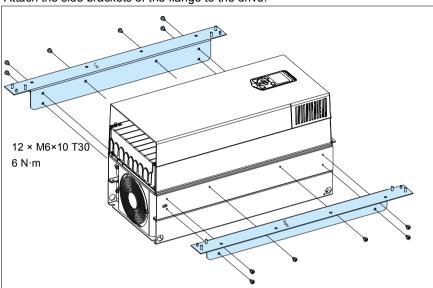




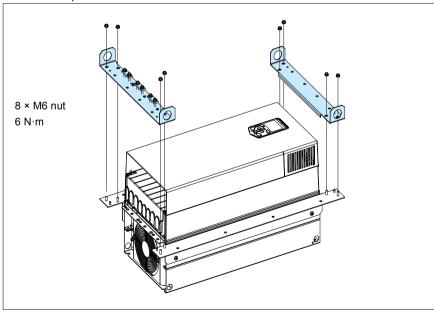


Frames R6 to R9

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



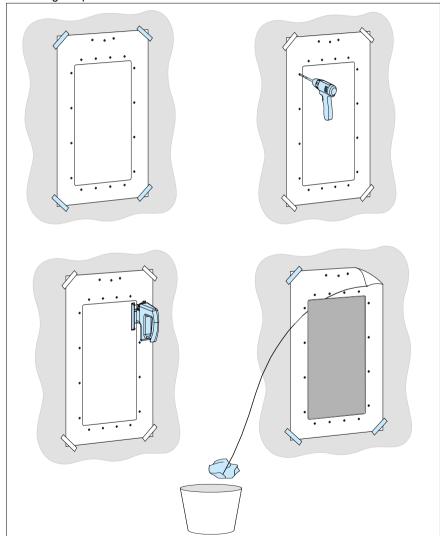
2. Attach the top and bottom brackets.





3. See chapter *Dimension drawings for ACS880-01* 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. Consider the hole size for the Rivet or Kalei nuts (not included in the delivery). Remove the mounting template.





Back: View from top

3 × M6 nut 6 N·m

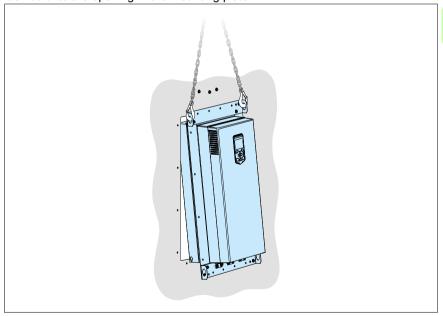
4. **UL Type 12 drives only:** Attach the hood to the cooling channel.

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

Back: View from bottom

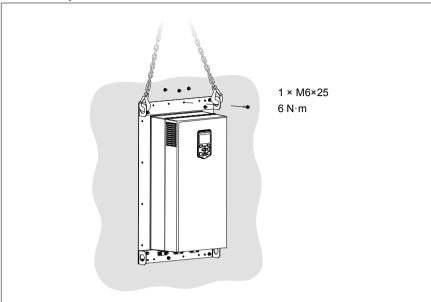
Back

Front



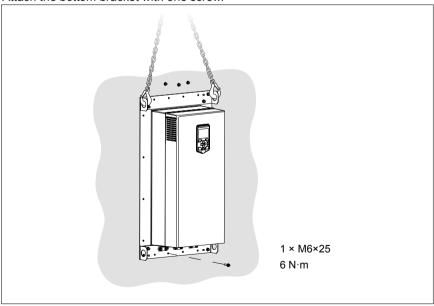


6. Attach the top bracket with one screw.

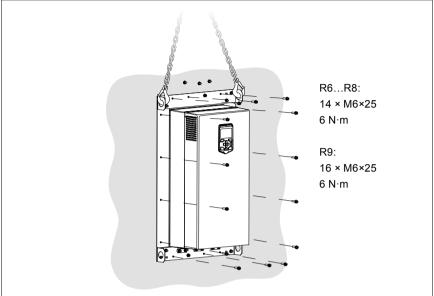




7. Attach the bottom bracket with one screw.



8. Attach the rest of the mounting screws. Remove the chains.







Mechanical installation for ACS580-01, ACH580-01 and ACQ580-01

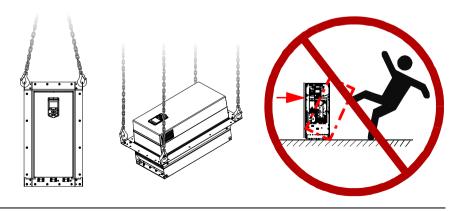
Contents of this chapter

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.



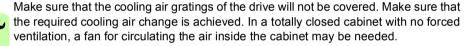


Examining the installation site

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 Free space requirements on page 60 and Dimensions, weights and free space requirements in the hardware manual.

Additional requirements for cabinet installations



Necessary tools

- Drill and drill bits
- Screwdriver

Moving the drive

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

Unpacking and examining the delivery

Transport package contents

The flange mounting kit package is either in the drive package, 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.

Frames R0 to R4

The flange mounting kit package is tied onto the drive package.

To unpack:

- Cut the straps.
- Remove the flange mounting kit package. For the contents of the kit package, see Frames R0 to R4 on page 55.
- Open the drive cardboard box. For the contents of the drive package, see the relevant drive hardware manual.
- I iff the drive.

Frames R5

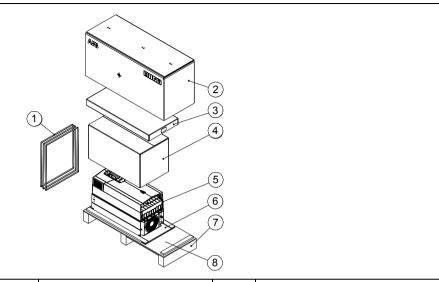
The flange mounting kit package is tied onto the drive package. The drive package is on a pallet.

To unpack:

- · Cut the straps.
- Remove the flange mounting kit package. For the contents of the kit package, see Frame R5 on page 58.
- Remove the drive cardboard box and option box.
- Remove the cover protecting film. For the contents of the drive package, see the relevant drive hardware manual.
- · Lift the drive.



Frames R6 to R9





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

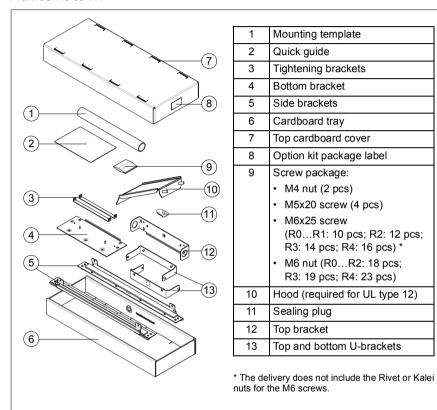
To unpack:

- · Cut the straps (1).
- Remove the cardboard cover (2).
- · Lift the flange mounting kit (3).
- · Remove the cardboard sleeve (4).
- Attach lifting hooks to the lifting eyes of the drive (5). Lift the drive with a hoist.

Flange mounting kit package contents

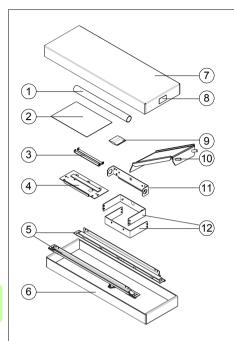
The drawings below show the layout of the flange mounting kit packages. Examine that all items are present and there are no signs of damage.

Frames R0 to R4





Frame R5

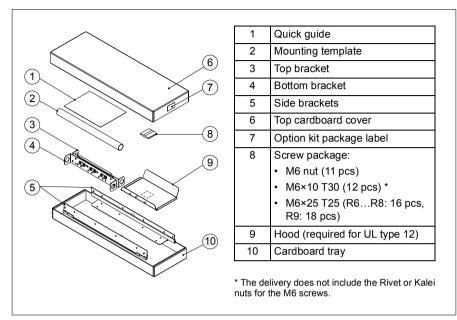


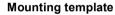
	T			
1	Mounting template			
2	Quick guide			
3	Tightening brackets			
4	Bottom bracket			
5	Side brackets			
6	Cardboard tray			
7	Top cardboard cover			
8	Option kit package label			
9	Screw package:			
	• M4 nut (2 pcs)			
	 M5x20 screw (4 pcs) 			
	• M6x25 screw (16 pcs) *			
	• M6 nut (23 pcs)			
10	Hood (required for UL type 12)			
11	Top bracket			
12	Top and bottom U-brackets			

^{*} The delivery does not include the Rivet or Kalei nuts for the M6 screws.



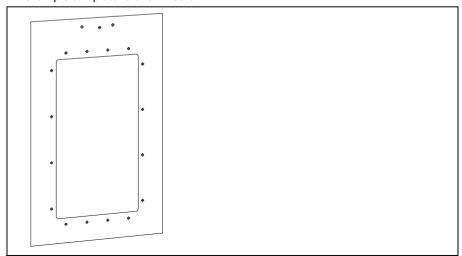
Frames R6 to R9





The flange mounting kit package includes a template in actual size for drilling the attaching holes and cutting the holes in the mounting plate.

An example template is shown below.

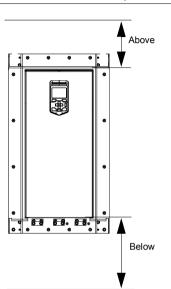




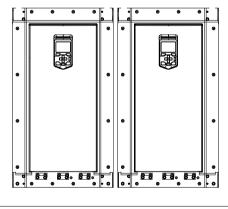
Installing the drive

Free space requirements

The flange-mounted drives can be installed side by side. For free space requirements above and below the drives, see the table.



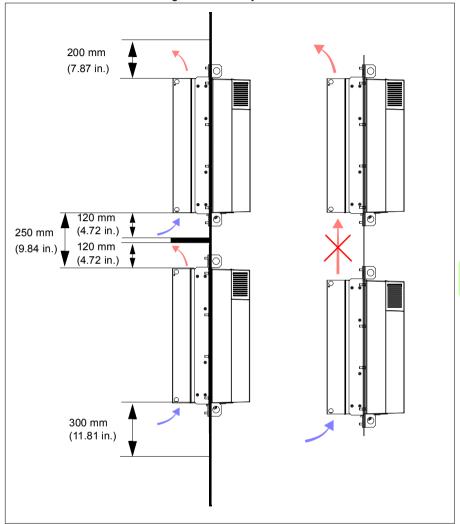
ACX580-01							
	Above		Below				
	mm	in	mm	in			
R0	100	3.94	200	7.87			
R1	100	3.94	200	7.87			
R2	100	3.94	200	7.87			
R3	115	4.53	200	7.87			
R4	115	4.53	200	7.87			
R5	115	4.53	200	7.87			
R6	200	7.87	300	11.81			
R7	200	7.87	300	11.81			
R8	200	7.87	300	11.81			
R9	200	7.87	300	11.81			





Installing drives above one another

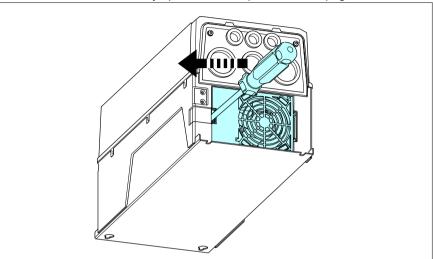
Make sure that the outlet cooling air flows away from the drive above.



Installation procedure

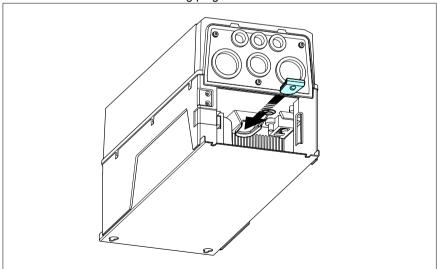
Frames R0 to R5

1. Frames R0...R4: To remove the fan assembly, push the retaining clip with a flat screwdriver. Lift the assembly up. See also steps for IP21 on page 66.

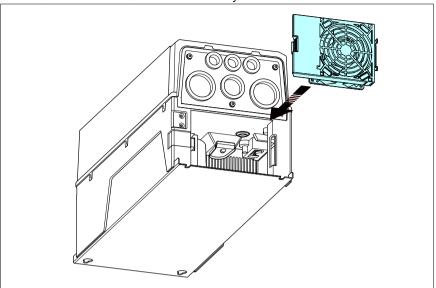




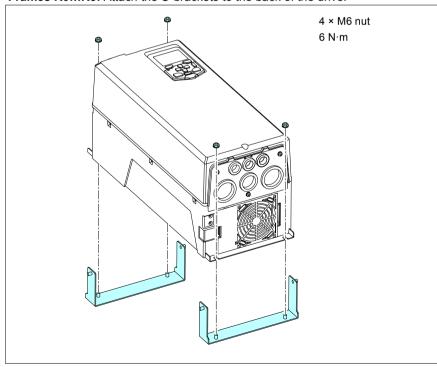
2. Frames R0...R4: Insert the sealing plug to the hole.



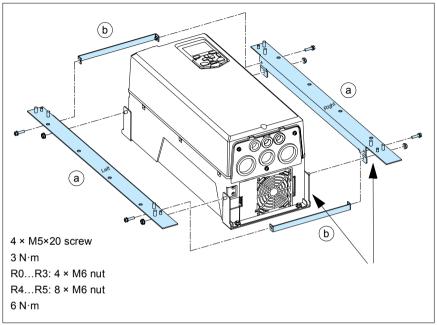
3. Frames R0...R4: Reinstall the fan assembly.



4. Frames R0...R5: Attach the U-brackets to the back of the drive.

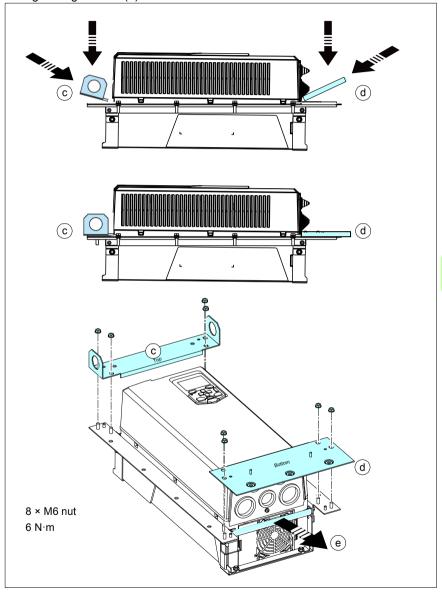


5. **Frames R0...R5:** First attach the side brackets (a) to the U-brackets which were attached in step 4 with M6 nuts. Then attach the tightening brackets (b) to both ends with M5×20 screws.



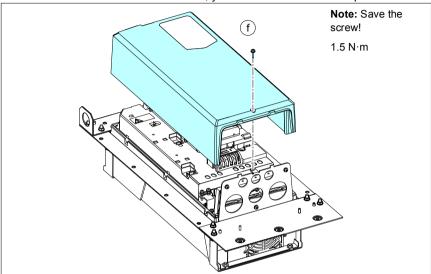


6. Frames R0...R5: Attach the top (c) and bottom (d) brackets to the side brackets, first the inner sides (the sides that touch the drive), then the outer sides. Remove the tightening bracket (e) from the front of the fan.



Note for frames R0...R5, P21:

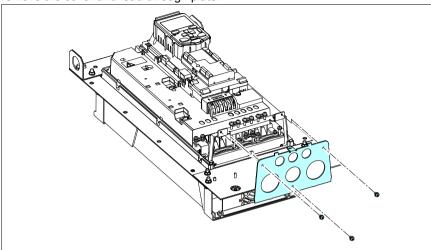
- If you use the IP21 cover with the flange mounting kit, install an internal fan (sold separately) to the drive or remove the IP21 cover for ventilation (f).
- If you install an IP21 drive in dry environment, you can leave the cover in place but DO NOT insert the sealing plug.
- Frame R5 has an internal fan. With R5, you can leave the cover in place.





Optional steps:

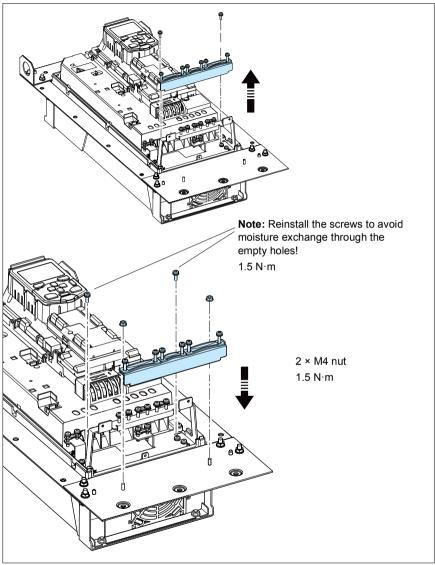
If you wish to install the power cable shelf lower on the bottom bracket, first remove the cover and lead-through plate.



Then detach the power cable shelf and attach it to the bottom bracket with M4 nuts.



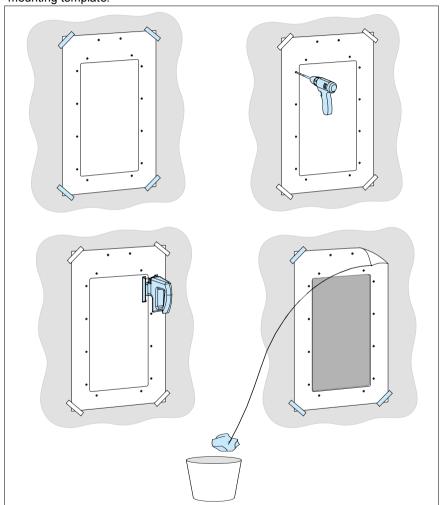
Note: Frame R3 is shown here as an example. The cable shelf varies in different frame sizes.





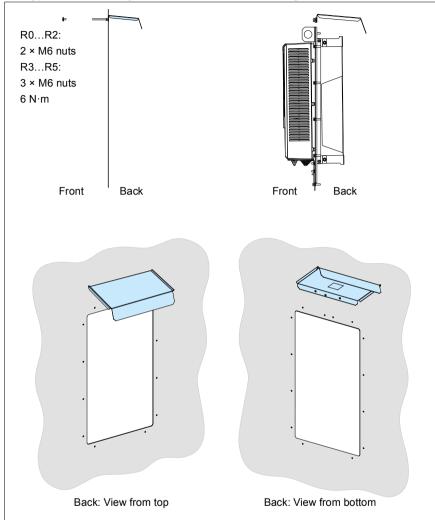
7. See chapter Dimension drawings for ACS580-01, ACH580-01 and ACQ580-01 for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate.

Make the opening and drill the holes for the mounting screws. Consider the hole size for the Rivet or Kalei nuts (not included in the delivery). Remove the mounting template.





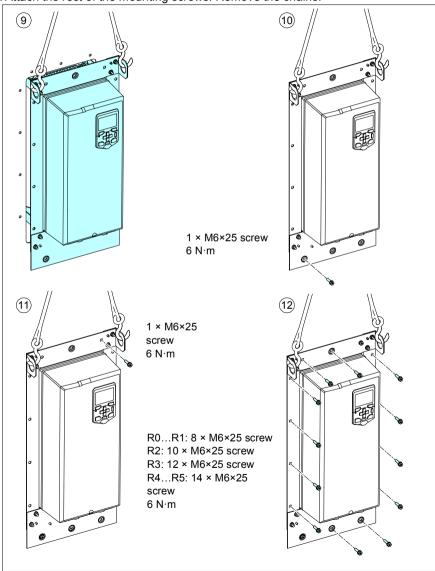
8. **UL Type 12 drives only**: Attach the hood to the cooling channel.





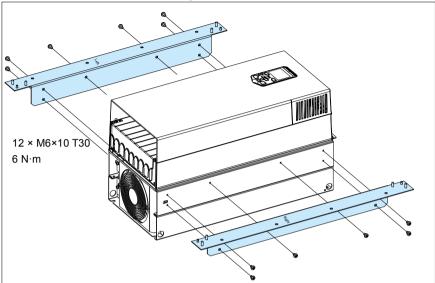
- 9. Attach chains to the drive lifting holes and lift the drive with a lifting device onto the opening in the mounting plate.
- 10. Attach the bottom bracket with one screw.
- 11. Attach the top bracket with one screw.

12. Attach the rest of the mounting screws. Remove the chains.

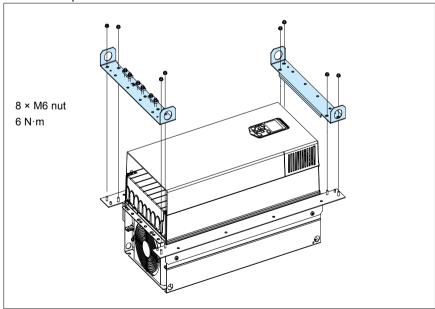


Frames R6 to R9

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



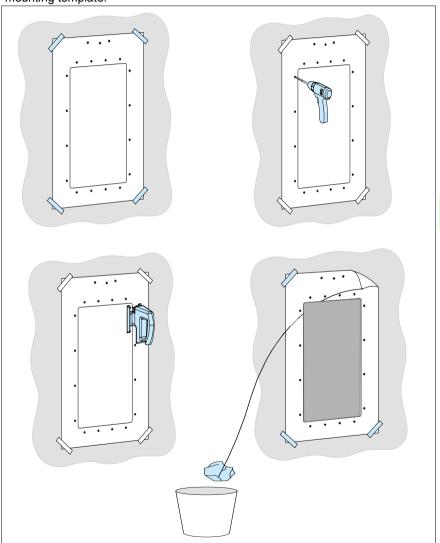
2. Attach the top and bottom brackets.



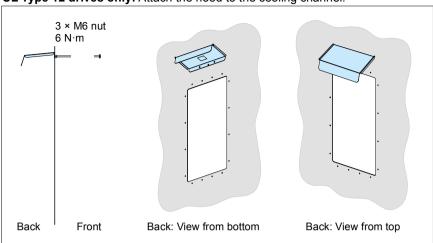


3. See chapter Dimension drawings for ACS580-01, ACH580-01 and ACQ580-01 for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate.

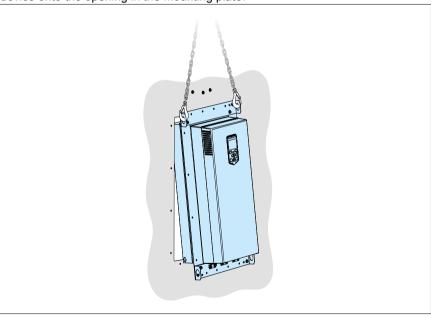
Make the opening and drill the holes for the mounting screws. Consider the hole size for the Rivet or Kalei nuts (not included in the delivery). Remove the mounting template.



4. UL Type 12 drives only: Attach the hood to the cooling channel.

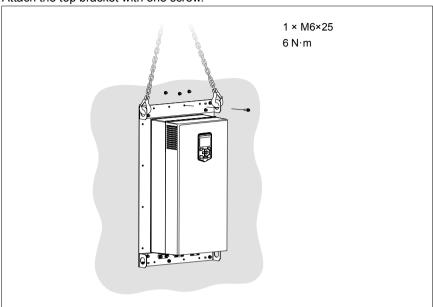


5. Attach the chains to the lifting holes of the flange and lift the drive with a lifting device onto the opening in the mounting plate.

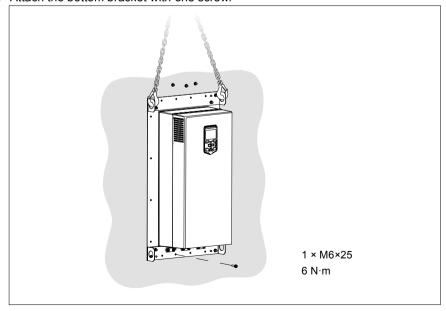




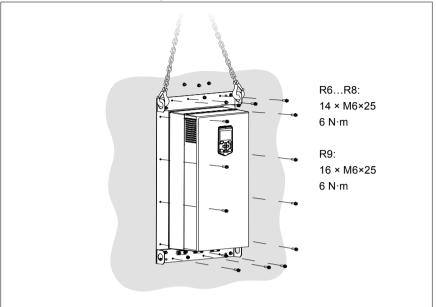
6. Attach the top bracket with one screw.



7. Attach the bottom bracket with one screw.



8. Attach the rest of the mounting screws. Remove the chains.





Mechanical installation for ACS880-11 and ACS880-31

Contents of this chapter

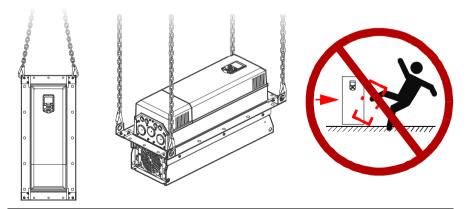
This chapter describes how to install the drive with the flange mounting kit mechanically.



Safety



WARNING! For frame sizes R6 and R8: 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.

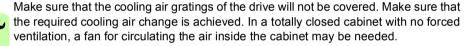


Examining the installation site

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 Free space requirements on page 84 and Dimensions, weights and free space requirements in the hardware manual.

Additional requirements for cabinet installations



Necessary tools

- Drill and drill bits
- Screwdriver

Moving the drive

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

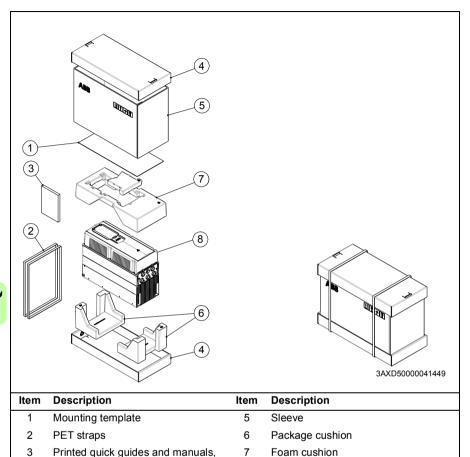
Unpacking and examining the delivery

Transport package contents

The flange mounting kit package is either in the drive package, 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.



Frame R3



8

Drive with factory installed options.

To unpack:

4

Cut the straps (2).

Tray

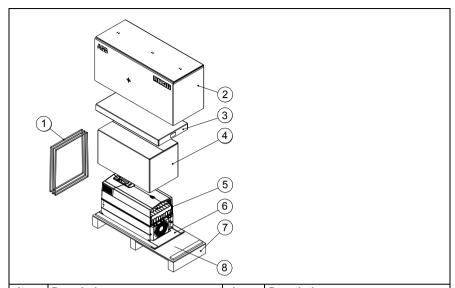
Remove the tray (4) and sleeve (5).

multilingual residual voltage warning sticker, manuals CD

- Remove the cover protecting film.
- Lift the drive (8).



Frames R6 and R8



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



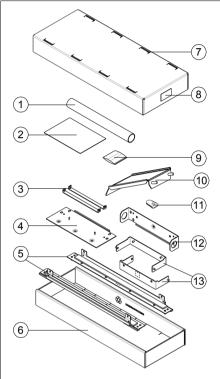
- Cut the straps (1).
- Remove the cardboard cover (2).
- Lift the flange mounting kit (3).
- Remove the cardboard sleeve (4).
- Attach lifting hooks to the lifting eyes of the drive (5). Lift the drive with a hoist.



Flange mounting kit package contents

The illustrations below show the layout of the flange mounting kit packages. Examine that all items are present and there are no signs of damage.

Frame R3

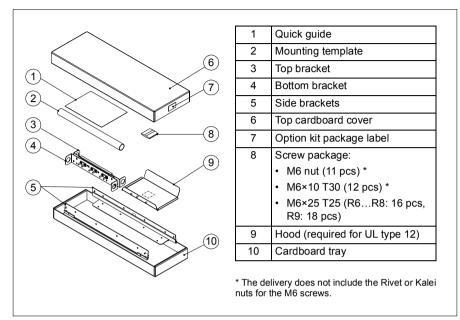


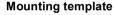
1	Mounting template	
2	Quick guide	
3	Tightening brackets	
4	Bottom bracket	
5	Side brackets	
6	Cardboard tray	
7	Top cardboard cover	
8	Option kit package label	
9	Screw package:	
	• M4 nut (2 pcs)	
	 M5x20 screw (4 pcs) 	
	M6x25 screw *	
	(R0R1: 10 pcs; R2: 12 pcs;	
	R3: 14 pcs; R4: 16 pcs)	
	• M6 nut (R0R2: 18 pcs;	
	R3: 19 pcs; R4: 23 pcs)	
10	Hood (required for UL type 12)	
11	Sealing plug	
12	Top bracket	
13	Top and bottom U-brackets	

^{*} The delivery does not include the Rivet or Kalei nuts for the M6 screws.



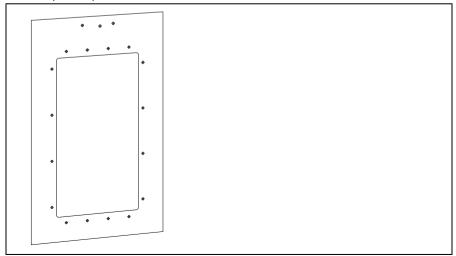
Frames R6 and R8





The flange mounting kit package includes a template in actual size for drilling the attaching holes and cutting the holes in the mounting plate.

An example template is shown below.

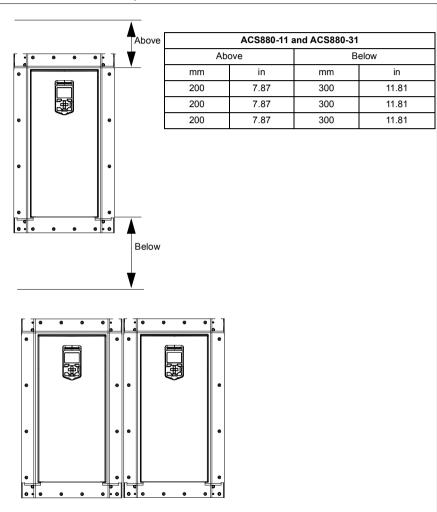




Installing the drive

Free space requirements

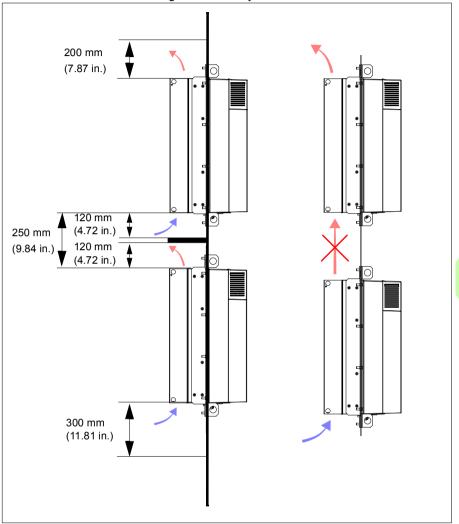
The flange-mounted drives can be installed side by side. For free space requirements above and below the drives, see the table.





Installing drives above one another

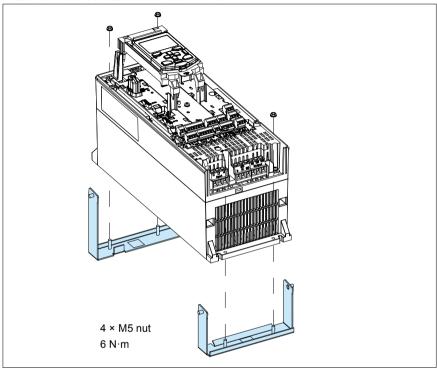
Make sure that the outlet cooling air flows away from the drive above.



Installation procedure

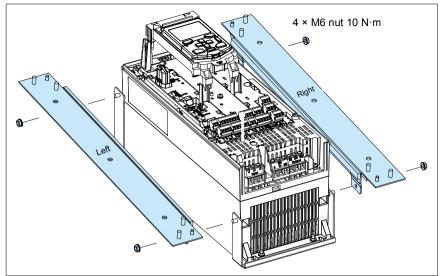
Frame R3

1. Attach the U-brackets to back of the drive.



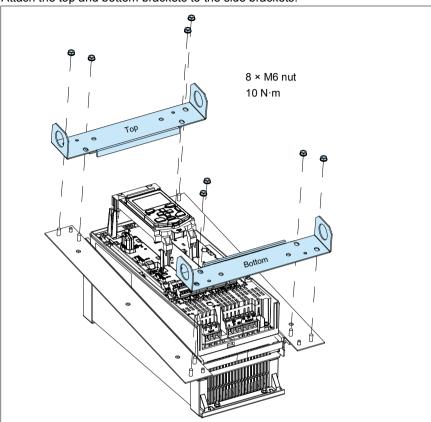


2. Attach the side brackets to the U-brackets with M6 nuts.





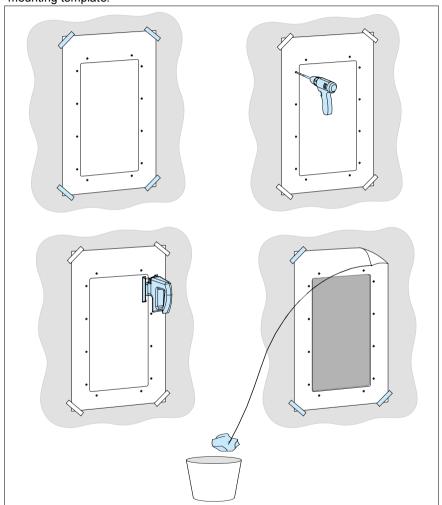
3. Attach the top and bottom brackets to the side brackets.





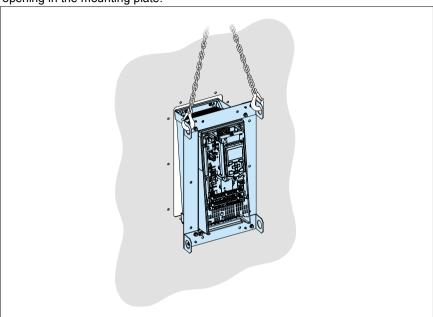
4. See chapter Dimension drawings for ACS880-11 and ACS880-31 for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate.

Make the opening and drill the holes for the mounting screws. Consider the hole size for the Rivet or Kalei nuts (not included in the delivery). Remove the mounting template.

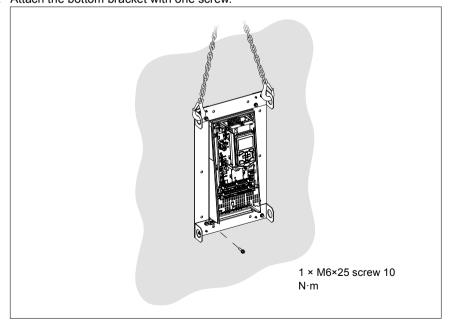




5. Attach chains to the drive lifting holes and lift the drive with a lifting device onto the opening in the mounting plate.

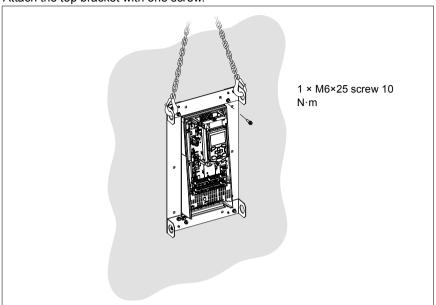


6. Attach the bottom bracket with one screw.

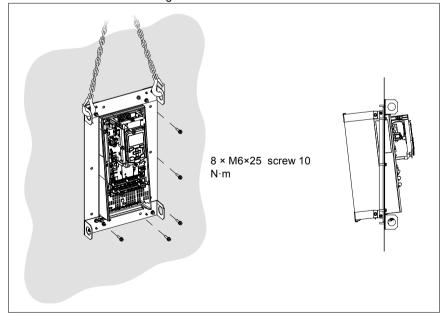




7. Attach the top bracket with one screw.

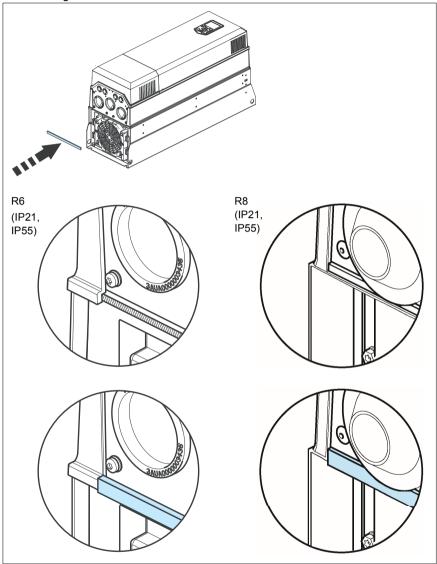


8. Attach the rest of the mounting screws. Remove the chains.



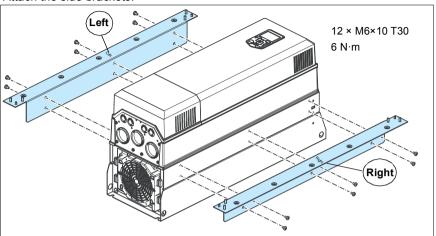
Frames R6 and R8

1. Attach the gasket.



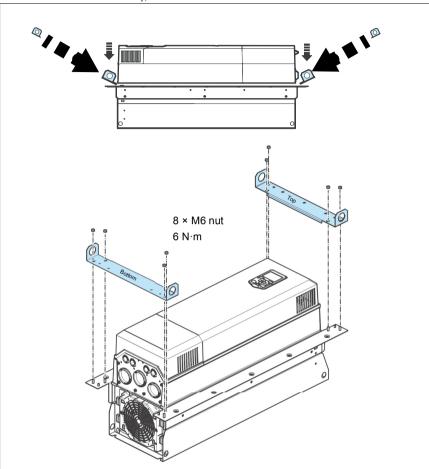


2. Attach the side brackets.



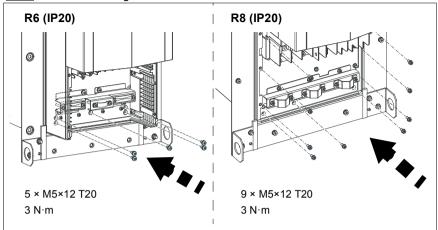


3. Attach the top and bottom brackets to the side brackets, first the inner side (the side that touches the drive), then the outer sides.





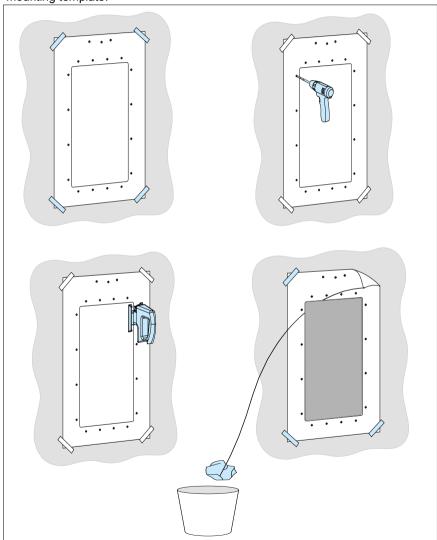
4. IP20: Install the sealing screws.





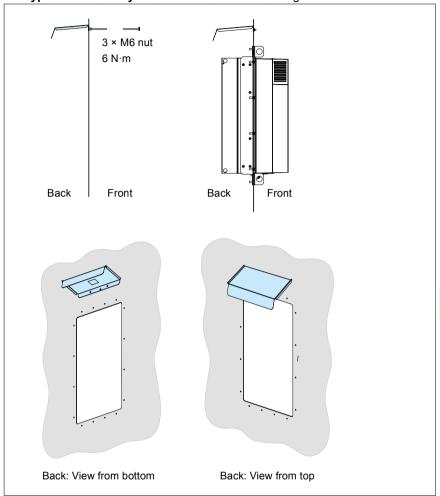
5. See chapter *Dimension drawings for ACS880-11 and ACS880-31* for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate.

Make the opening and drill the holes for the mounting screws. Consider the hole size for the Rivet or Kalei nuts (not included in the delivery). Remove the mounting template.



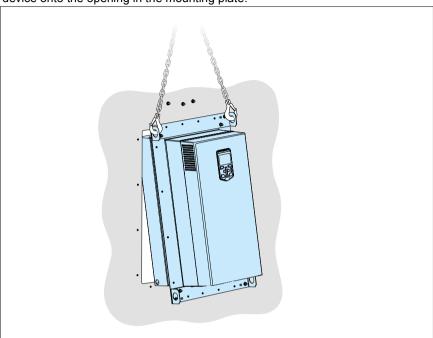


6. **UL Type 12 drives only:** Attach the hood to the cooling channel.



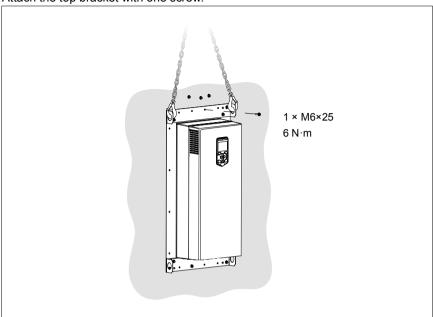


7. Attach the chains to the lifting holes of the flange and lift the drive with a lifting device onto the opening in the mounting plate.

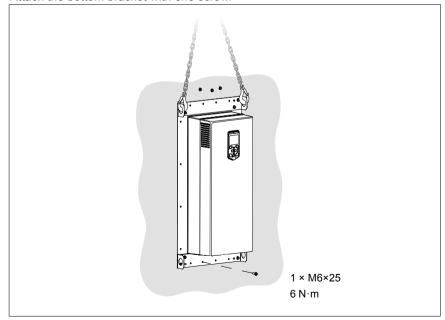




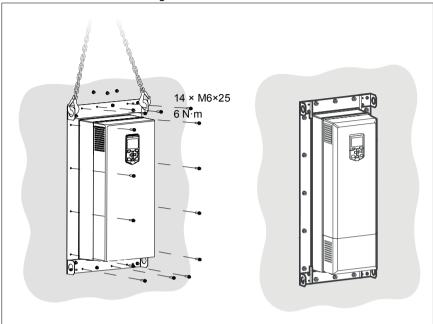
8. Attach the top bracket with one screw.



9. Attach the bottom bracket with one screw.



10. Attach the rest of the mounting screws. Remove the chains.





Mechanical installation for ACH580-31 and ACQ580-31

Contents of this chapter

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

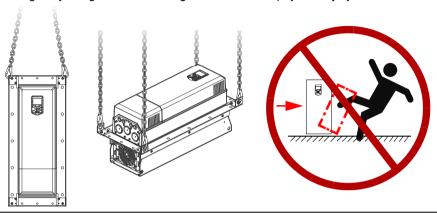


Note! Some installation figures display the face of the ACH580-31 model instead of the ACQ580-31 model and vice versa. The installation instructions are still applicable for both models.

Safety



WARNING! For frame sizes R6 and R8: 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 Free space requirements on page 109 and 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 a totally closed cabinet with no forced ventilation, a fan for circulating the air inside the cabinet may be needed.

Necessary tools

- · Drill and drill bits
- Screwdriver

Moving the drive

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

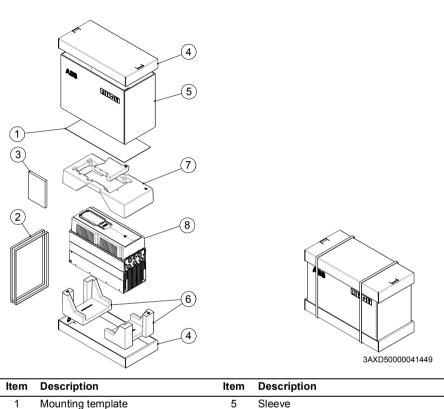
Unpacking and examining the delivery

Transport package contents

The flange mounting kit package is either in the drive package, 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.



Frame R3

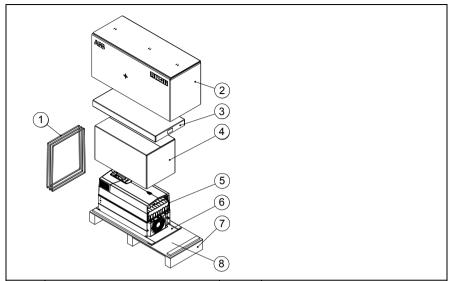


Item	Description	Item	Description
1	Mounting template	5	Sleeve
2	PET straps	6	Package cushion
3	Printed quick guides and manuals, multilingual residual voltage warning sticker, manuals CD	7	Foam cushion
4	Tray	8	Drive with factory installed options.

- To unpack:
- · Cut the straps (2).
- Remove the tray (4) and sleeve (5).
- · Remove the cover protecting film.
- Lift the drive (8).



Frames R6 and R8



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



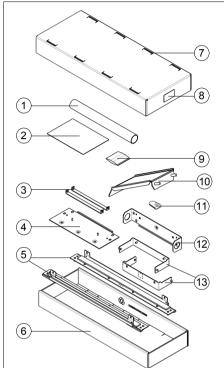
- Cut the straps (1).
- Remove the cardboard cover (2).
- Lift the flange mounting kit (3).
- Remove the cardboard sleeve (4).
- Attach lifting hooks to the lifting eyes of the drive (5). Lift the drive with a hoist.



Flange mounting kit package contents

The illustrations show the layout of the flange mounting kit packages. Examine that all items are present and there are no signs of damage.

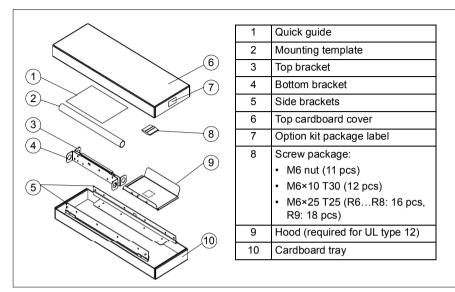
Frame R3



		
1	Mounting template	
2	Quick guide	
3	Tightening brackets	
4	Bottom bracket	
5	Side brackets	
6	Cardboard tray	
7	Top cardboard cover	
8	Option kit package label	
9	Screw package:	
	• M4 nut (2 pcs)	
	M5x20 screw (4 pcs)	
	M6x25 screw	
	(R0R1: 10 pcs; R2: 12 pcs; R3: 14 pcs; R4: 16 pcs)	
	• M6 nut (R0R2: 18 pcs;	
	R3: 19 pcs; R4: 23 pcs)	
10	Hood (required for UL type 12)	
11	Sealing plug	
12	Top bracket	
13	Top and bottom U-brackets	



Frames R6 and R8





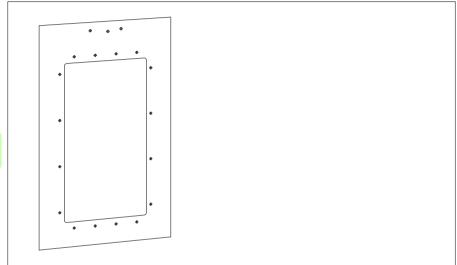
Example mounting template

The flange mounting kit package includes a template in actual size for drilling the attaching holes and cutting the holes in the mounting plate. For drilling the holes, see the installation procedures for:

- Frame R3.
- Frames R6 and R8.

Note: The delivery does not include the Rivet or Kalei nuts for the M6 screws. Consider the hole size for the nuts.

An example template is shown below.

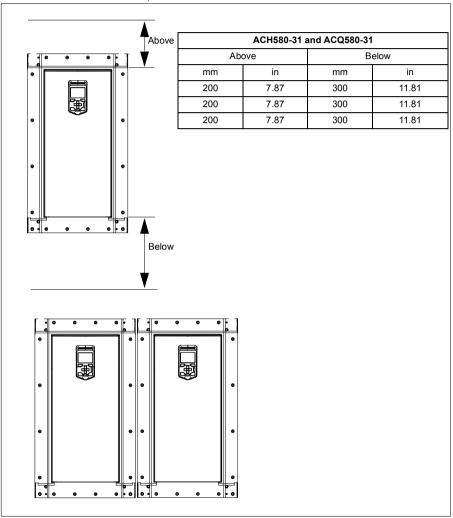




Installing the drive

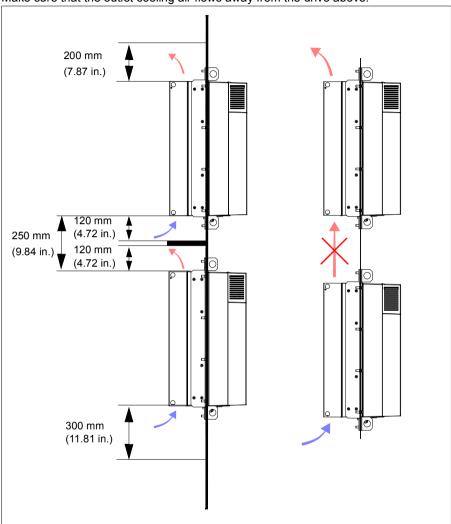
Free space requirements

The flange-mounted drives can be installed side by side. For free space requirements above and below the drives, see the table.



Installing drives above one another

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

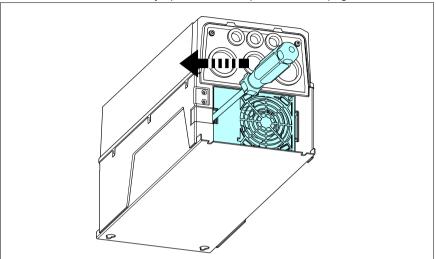




Installation procedure

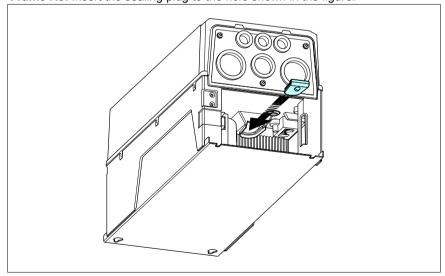
Frame R3

1. Frame R3: To remove the fan assembly, push the retaining clip with a flat screwdriver. Lift the assembly up. See also steps for IP21 on page 115.

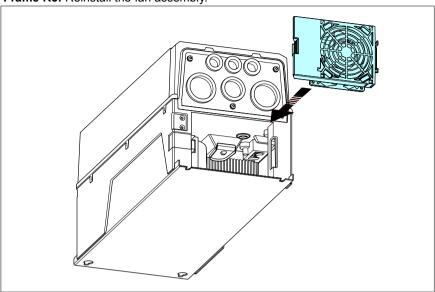




2. Frame R3: Insert the sealing plug to the hole shown in the figure.

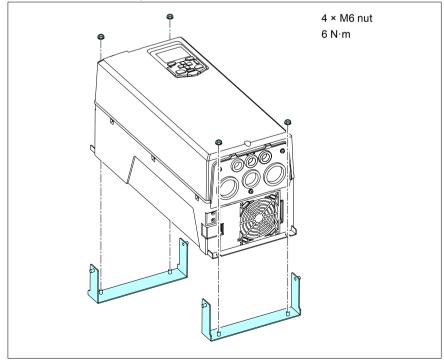


3. Frame R3: Reinstall the fan assembly.

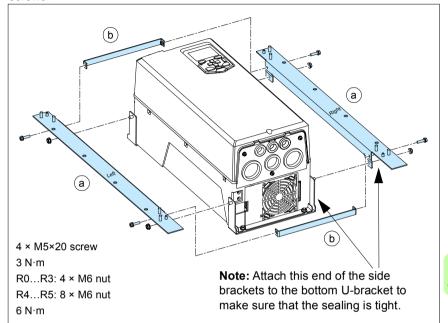




4. Frame R3: Attach the top and bottom U-brackets to the drive.

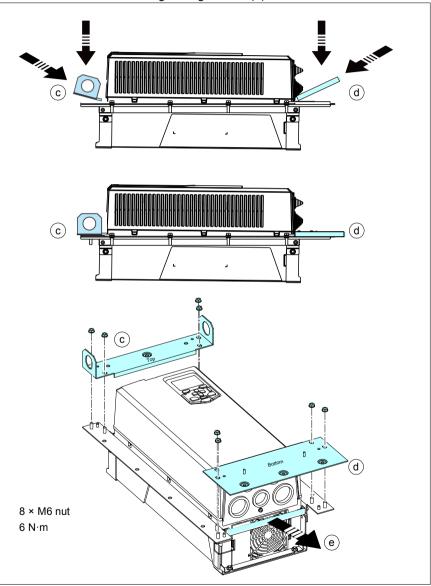


5. Frame R3: First attach the side brackets (a) to the top and bottom U-brackets with M6 nuts. Then attach the tightening brackets (b) to the both ends with M5×20 screws.





6. **Frame R3:** Attach the top (c) and bottom (d) brackets to the side brackets, first the inner sides of the top and bottom brackets (the sides that touch the drive), then the outer sides. Remove the tightening bracket (e) from the front of the fan.





IP21:

- If you use the IP21 cover with the flange mounting kit, install an internal fan (sold separately) to the drive or remove the IP21 cover for ventilation (f).
- If you install an IP21 drive in dry environment, you can leave the cover in place but DO NOT insert the sealing plug.

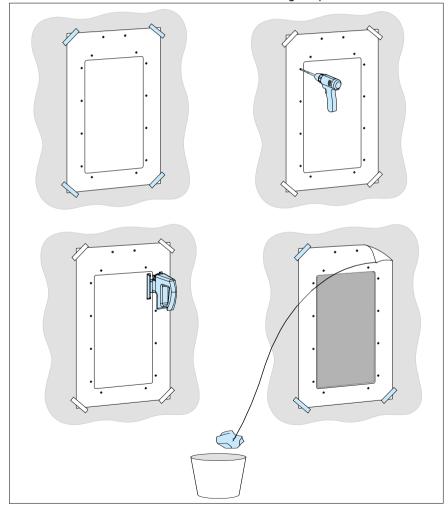


 See chapter Dimension drawings for ACH580-31 and ACQ580-31 for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate.

Note: Mounting templates are different (size, number and position of holes) for different frame sizes.

Note: The delivery does not include Rivet or Kalei nuts for the M6 mounting screws.

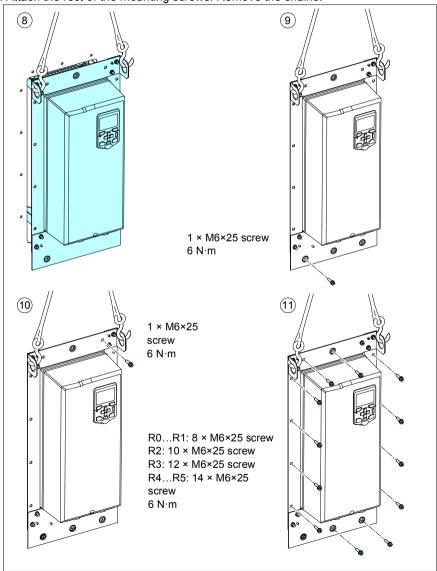
Make the opening and drill the holes for the mounting screws. Consider the hole size for the Rivet or Kalei nuts. Remove the mounting template.





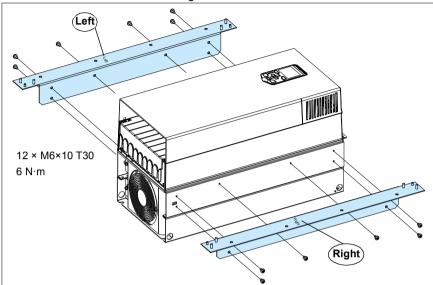
- 8. Attach chains to the drive lifting holes and lift the drive with a lifting device onto the opening in the mounting plate.
- 9. Attach the bottom bracket with one screw.
- 10. Attach the top bracket with one screw.

11. Attach the rest of the mounting screws. Remove the chains.



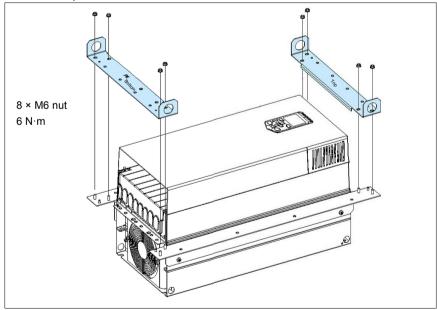
Frames R6 and R8

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





2. Attach the top and bottom brackets.



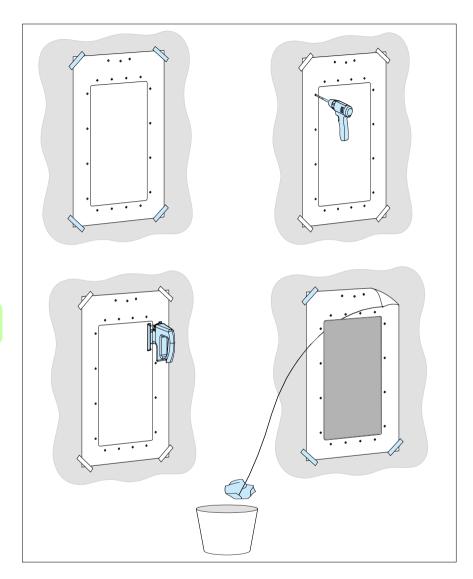
3. See chapter *Dimension drawings for ACH580-31 and ACQ580-31* for the dimensions of the flange and the required opening in the mounting plate. Attach the mounting template from the flange mounting kit package onto the mounting plate.

Note: The delivery does not include Rivet or Kalei nuts for the M6 mounting screws.

Make the opening and drill the holes for the mounting screws. Consider the hole size for the Rivet or Kalei nuts. Remove the mounting template.

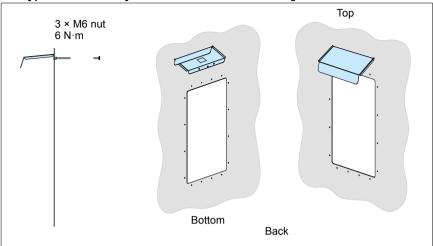




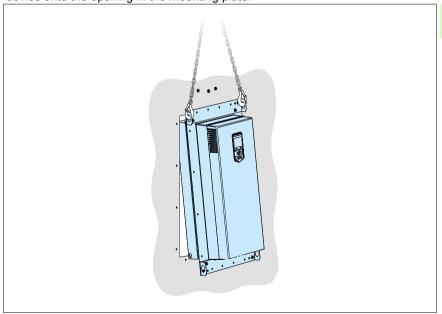




4. **UL Type 12 drives only:** Attach the hood to the cooling channel.

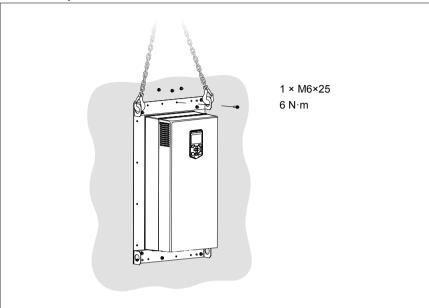


5. Attach the chains to the lifting holes of the flange and lift the drive with a lifting device onto the opening in the mounting plate.



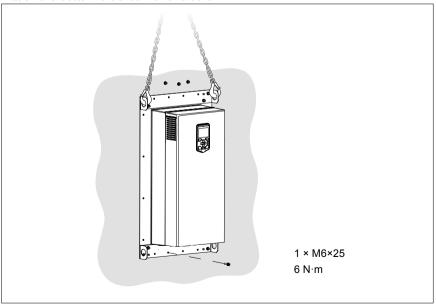


6. Attach the top bracket with one screw.

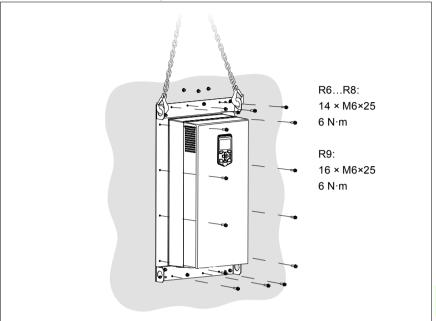




7. Attach the bottom bracket with one screw.



8. Attach the rest of the mounting screws. Remove the chains.





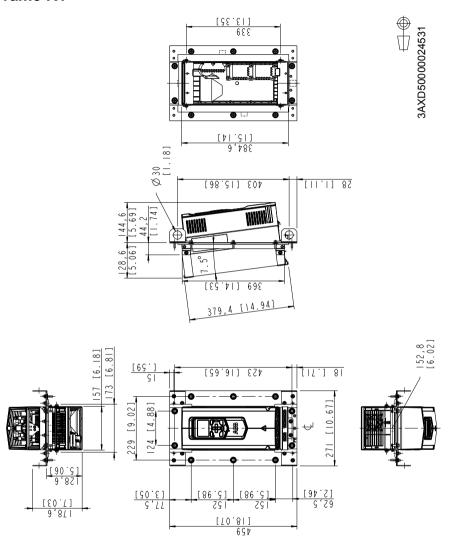


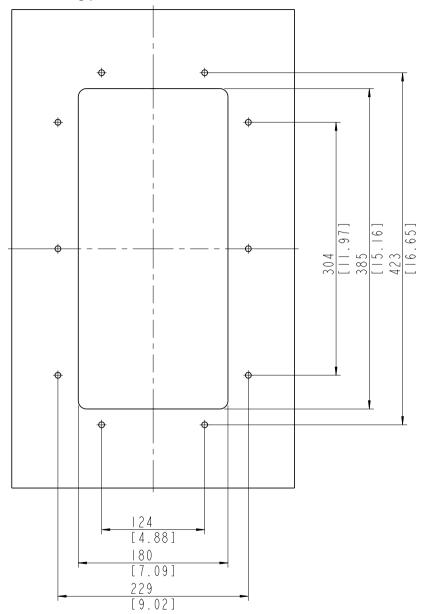


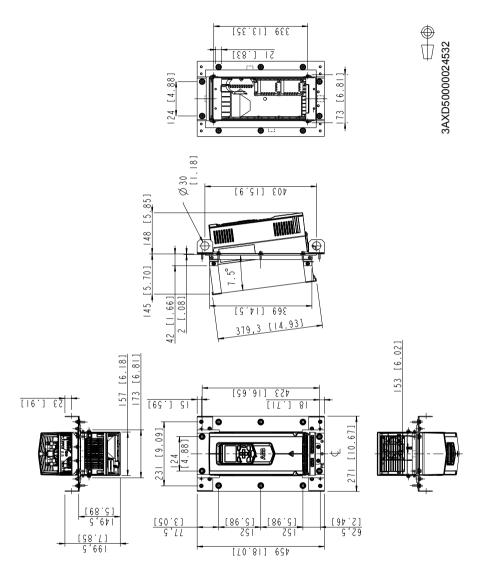
Dimension drawings for ACS880-01

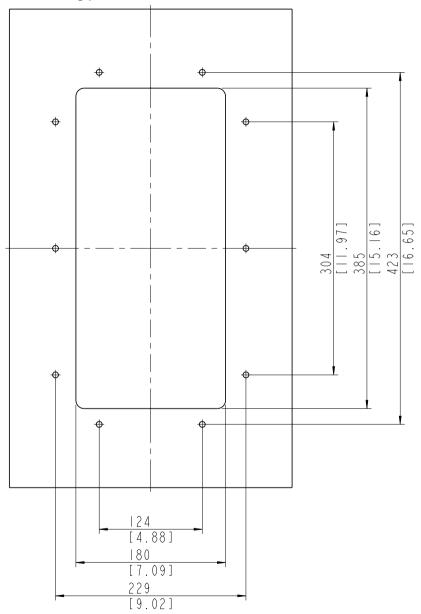
Contents of this chapter

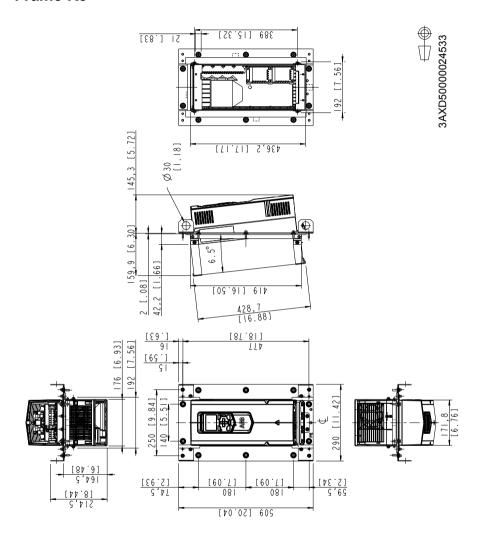
This chapter contains the dimension drawings of the flange mounting kits and required openings in the mounting plate.

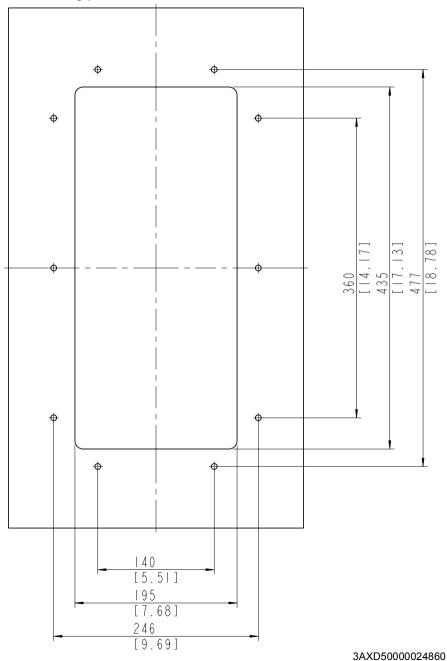


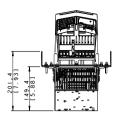




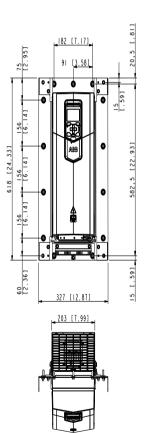


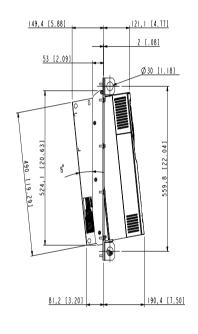






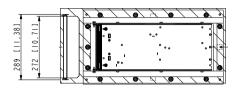


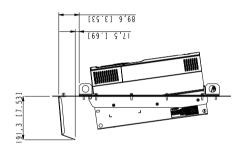


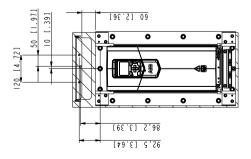


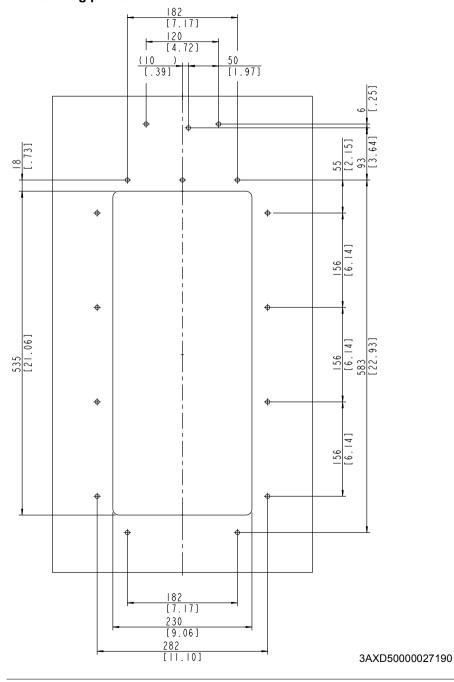


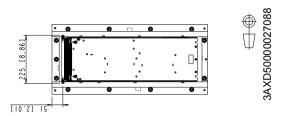
Hood is needed for UL Type 12 drives only

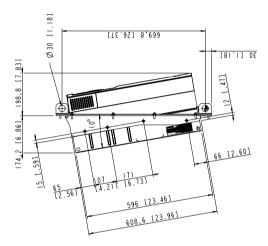


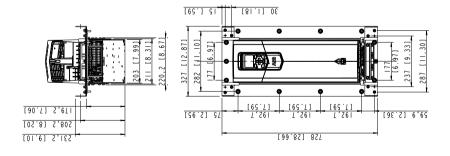




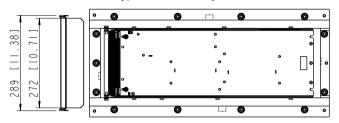




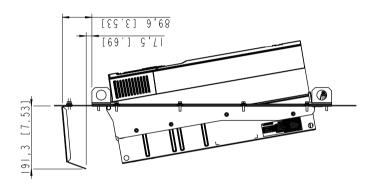


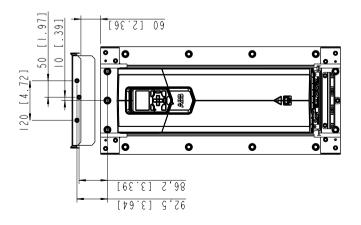


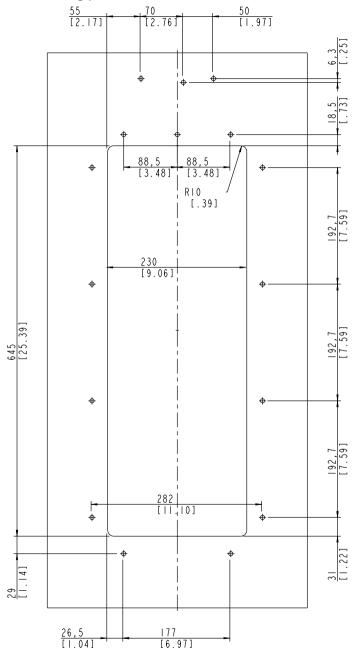
Hood is needed for UL Type 12 drives only

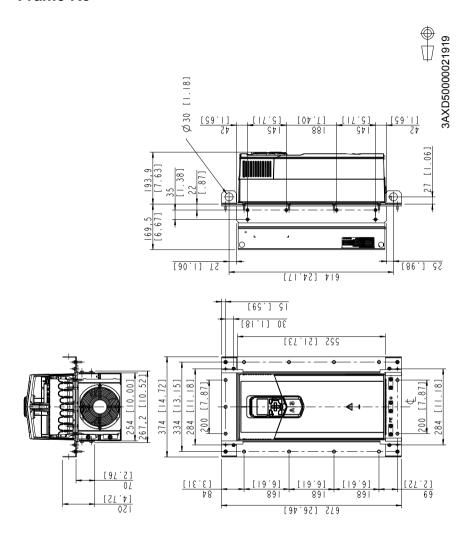




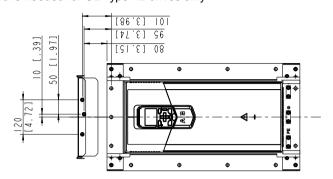


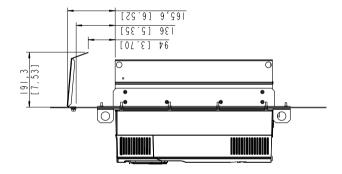


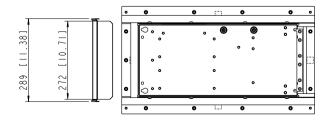


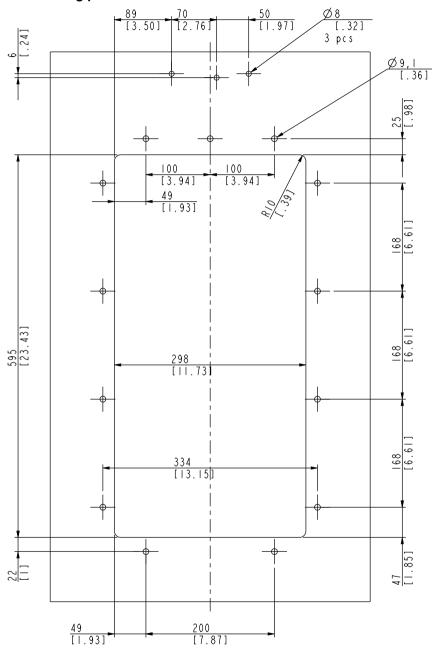


Hood is needed for UL Type 12 drives only

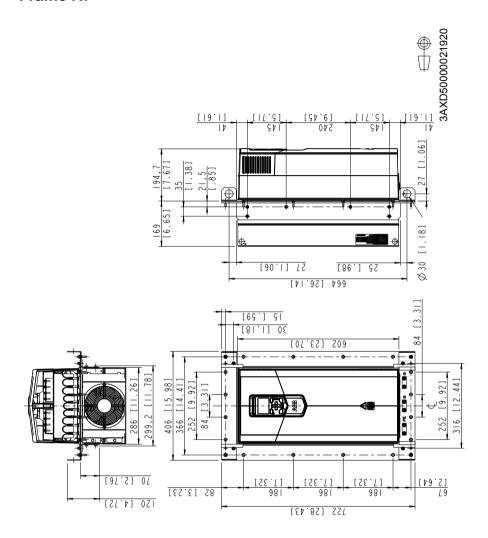




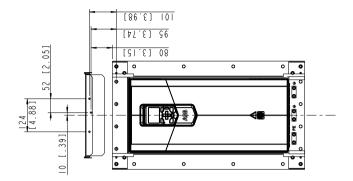




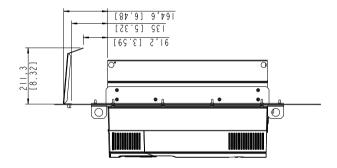
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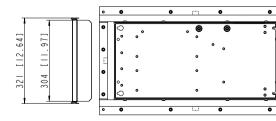


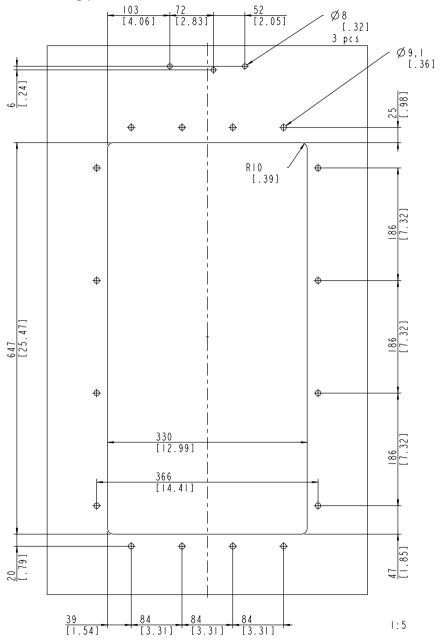
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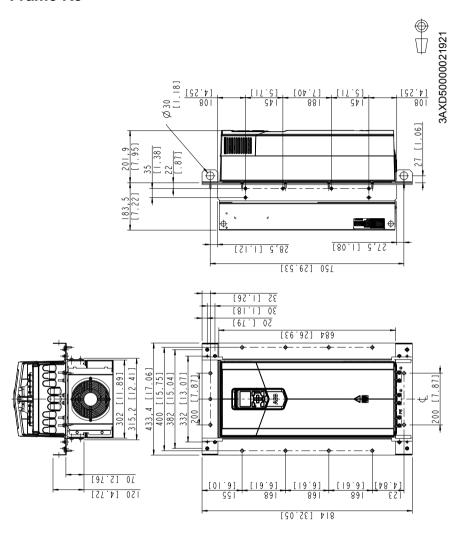


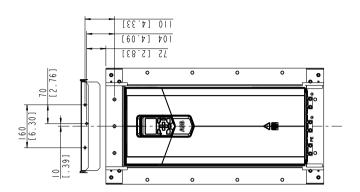


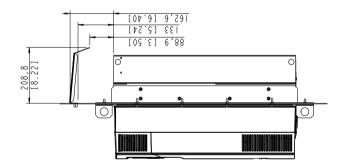


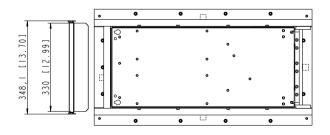


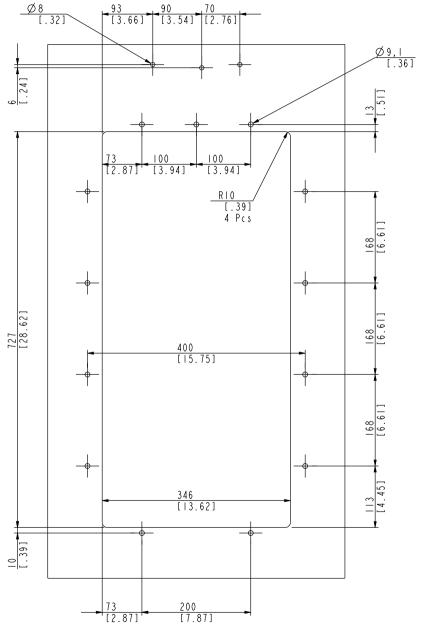
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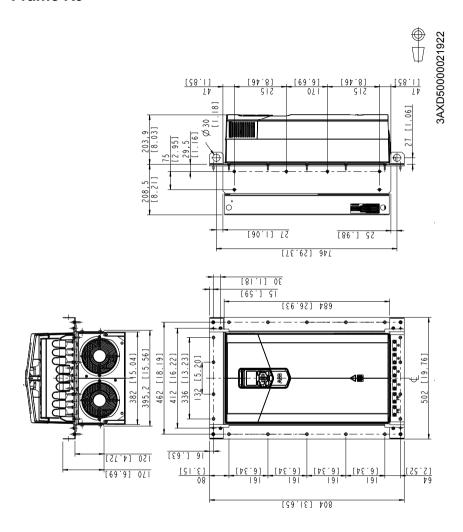


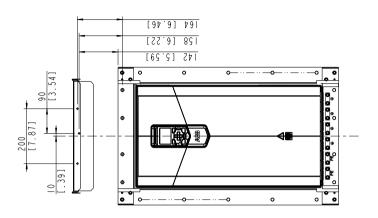




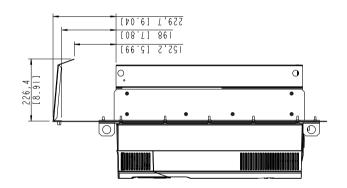


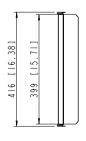
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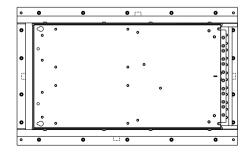


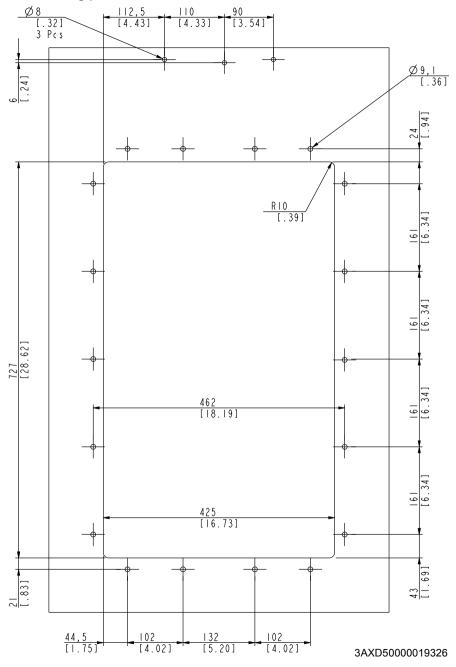










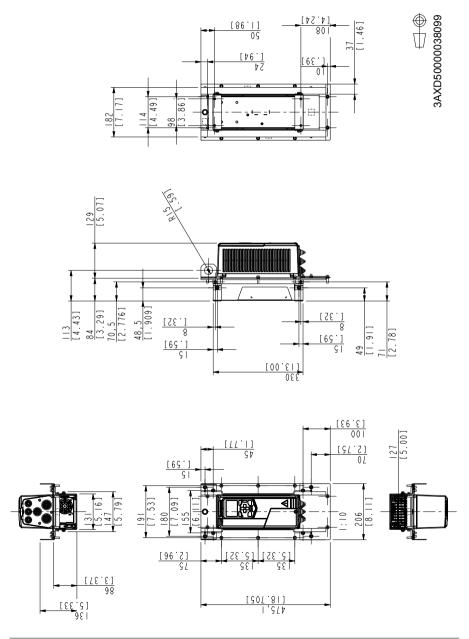


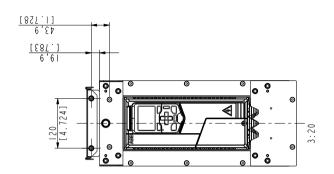
Dimension drawings for ACS580-01, ACH580-01 and ACQ580-01

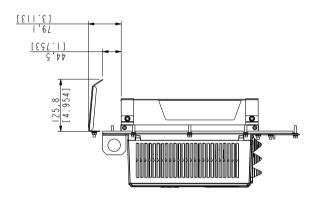
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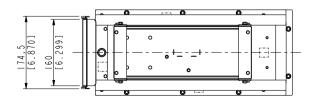
This chapter contains the dimension drawings of the flange mounting kits and required openings in the mounting plate.

For ACS580-01, ACH580-01 and ACQ580-01 types -02A6-4, -03A3-4, -04A0-4 and -05A6-4.

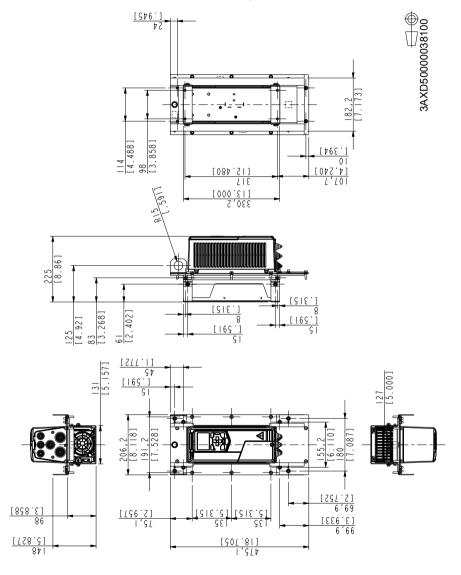


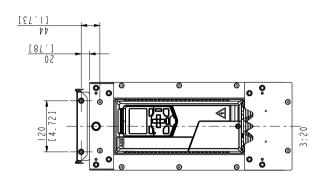


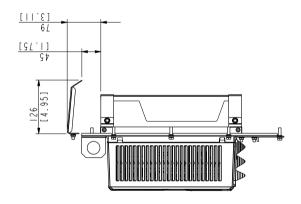


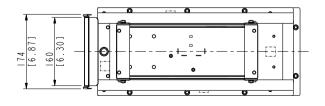


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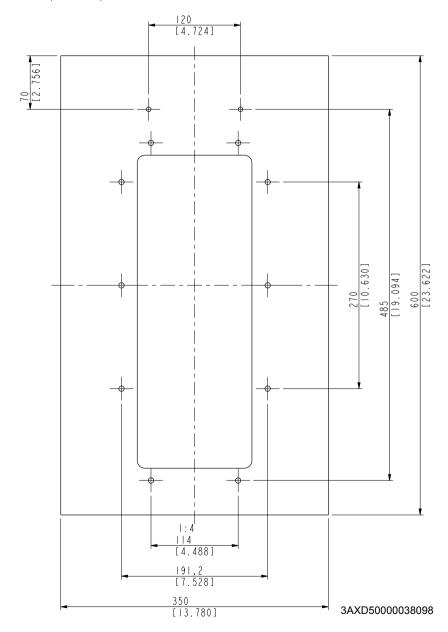




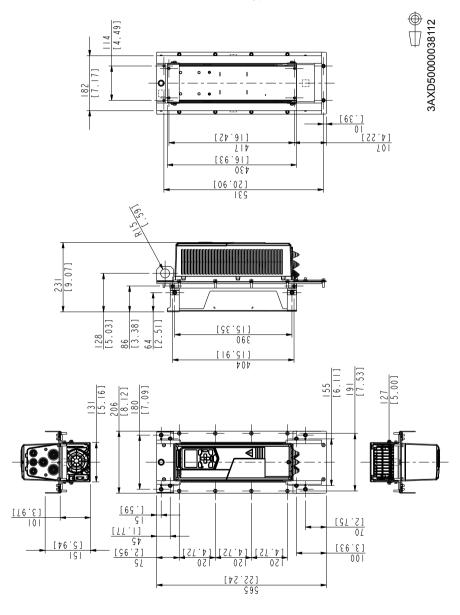


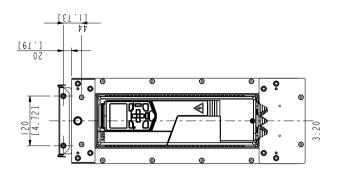


For ACS580-01, ACH580-01 and ACQ580-01 types -02A6-4, -03A3-4,-04A0-4, -05A6-4, -07A2-4, -09A4-4 and -12A6-4

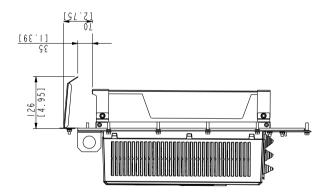


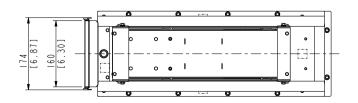
For ACS580-01, ACH580-01 and ACQ580-01 types -017A-4 and -025A-4.

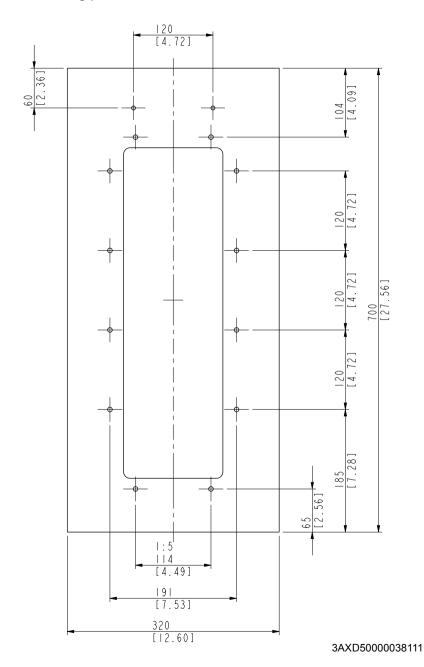






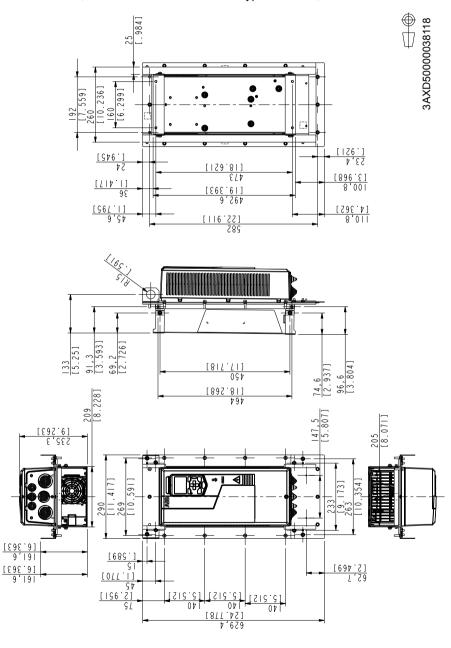


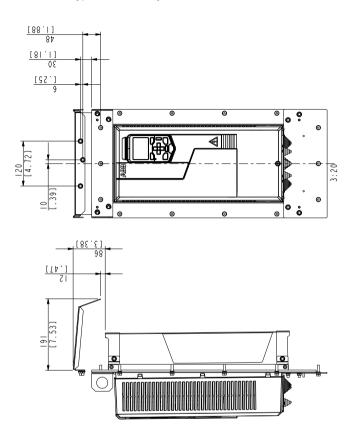


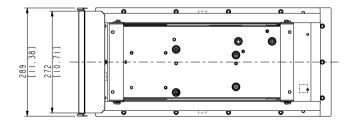


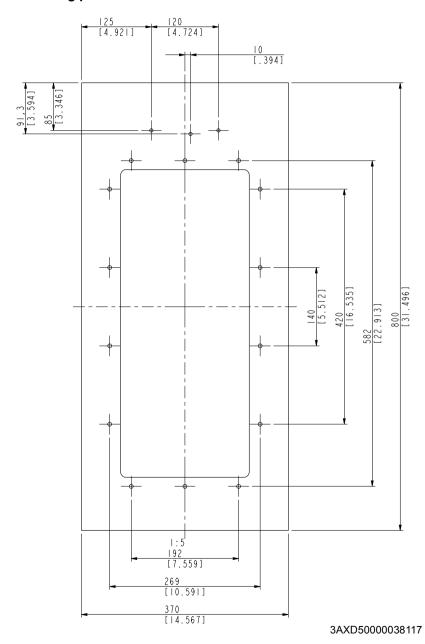
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For ACS580-01, ACH580-01 and ACQ580-01 types -032A-4, -038A-4 and -045A-4.

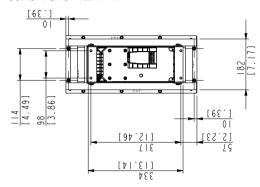




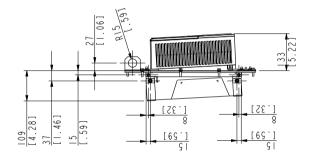


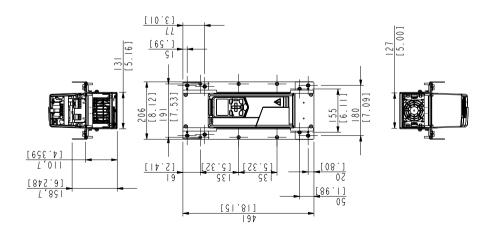


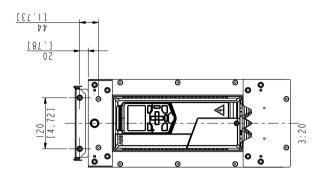
For ACS580-01, ACH580-01 and ACQ580-01 types -02A7-4, -03A4-4, -04A1-4, -05A7-4, -07A3-4, -09A5-4 and -12A7-4.



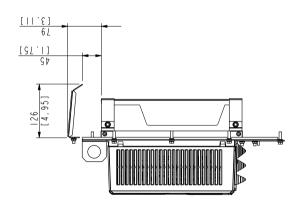


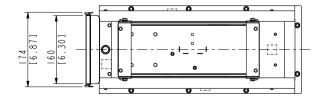


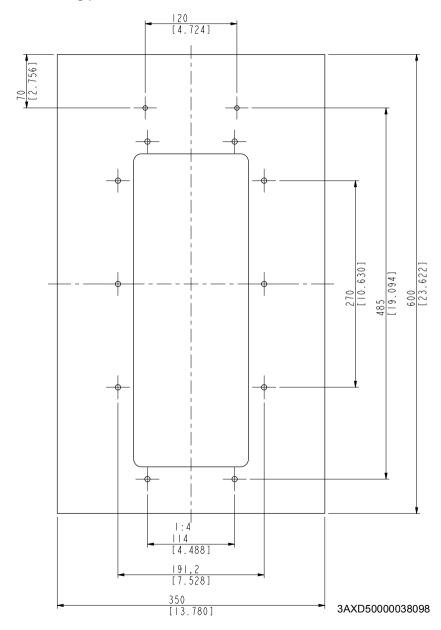




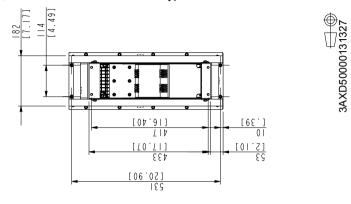


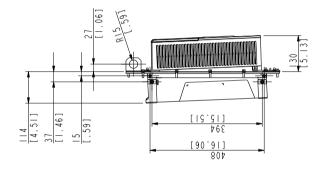


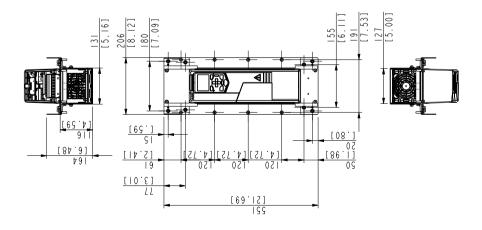


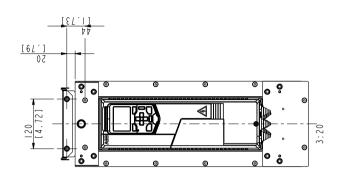


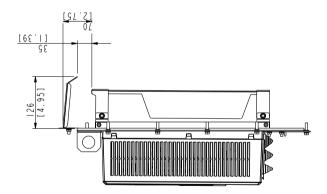
For ACS580-01, ACH580-01 and ACQ580-01 types -018A-4 and -026A-4.

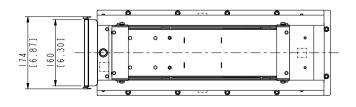


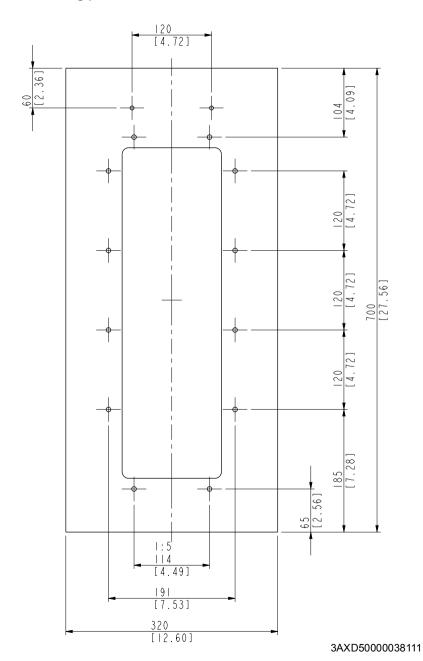




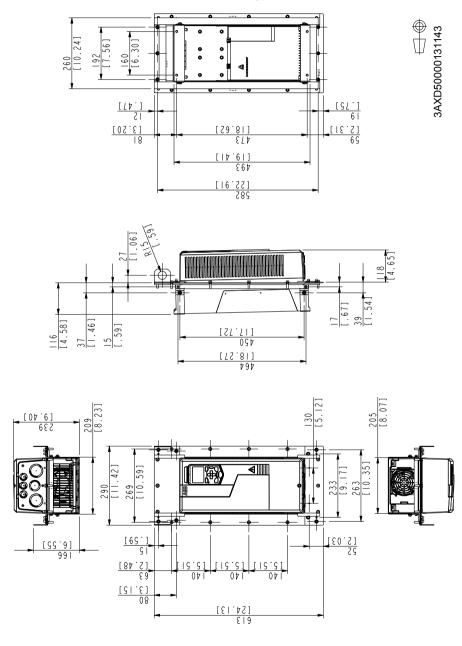


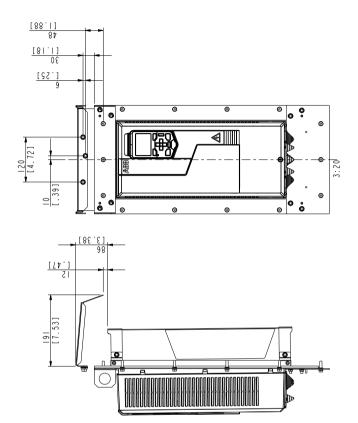




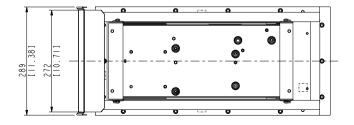


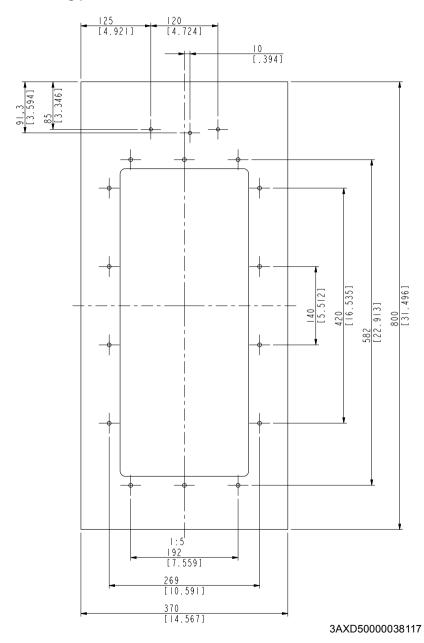
For ACS580-01, ACH580-01 and ACQ580-01 types -033A-4, -039A-4 and -046A-4.

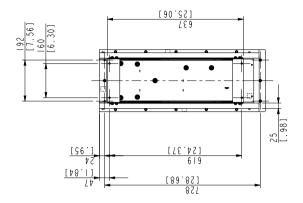




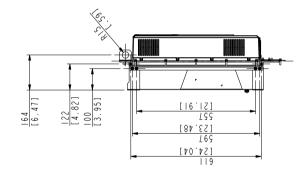


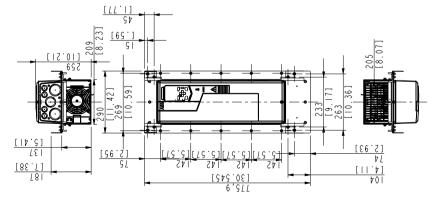


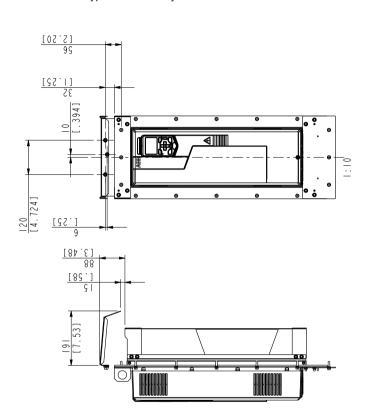


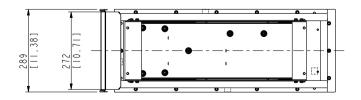


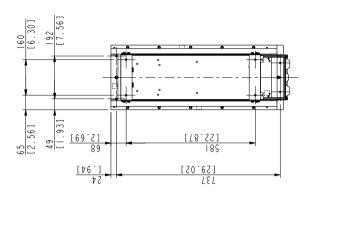


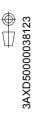


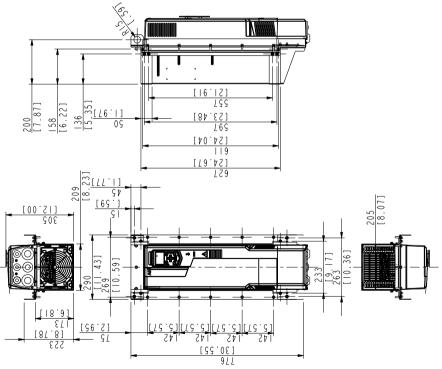


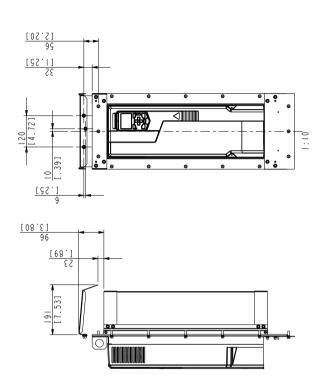


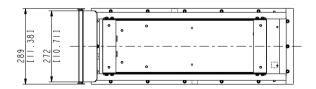




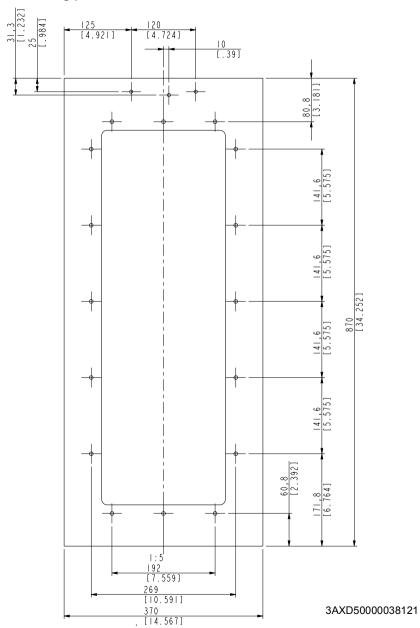


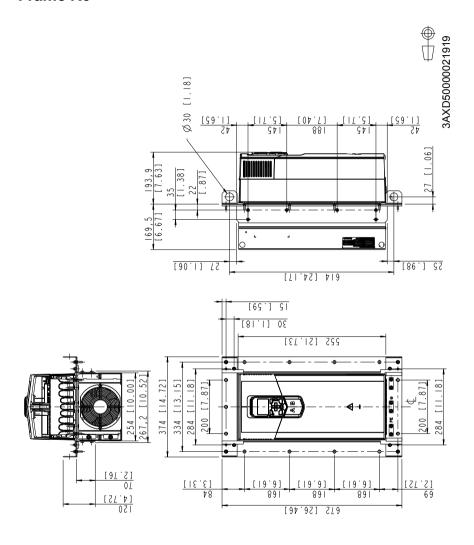


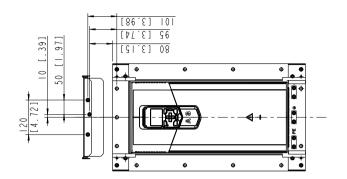




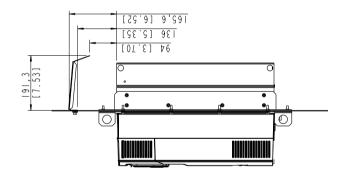
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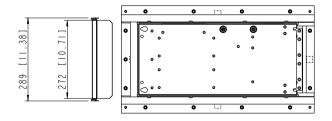


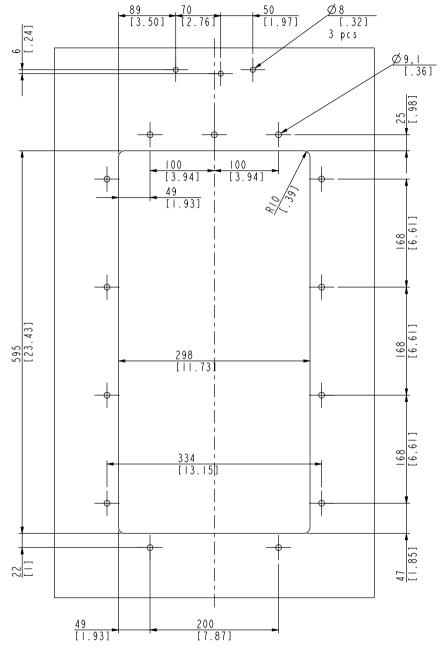




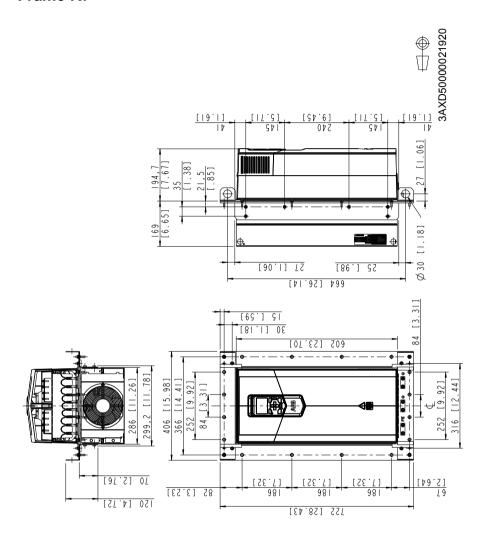




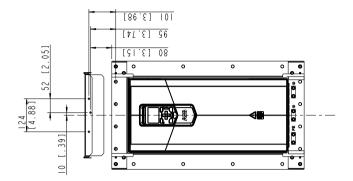




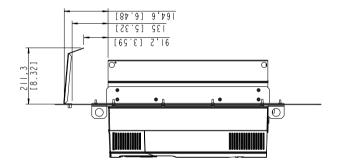
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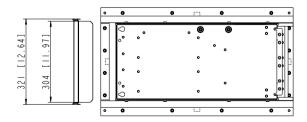


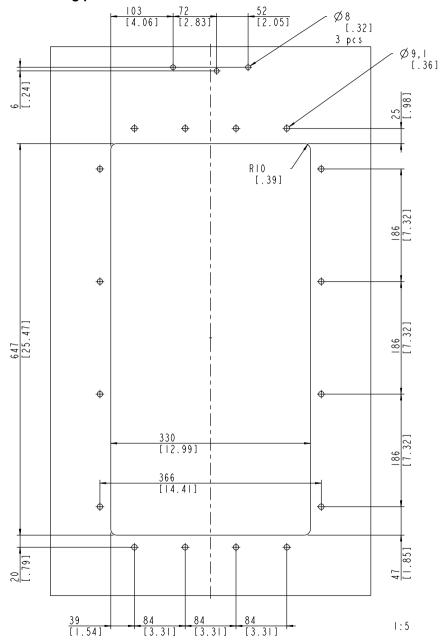
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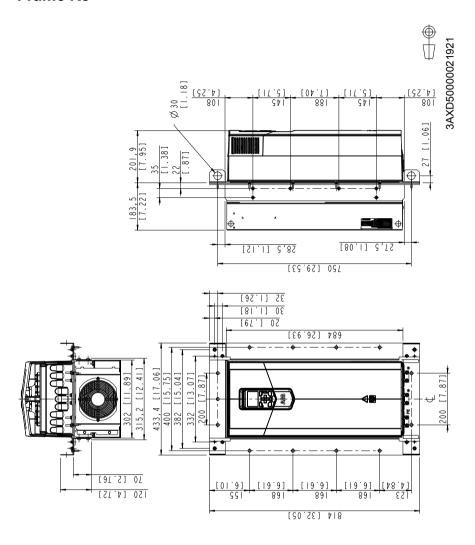




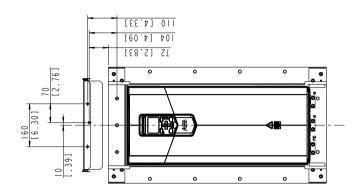


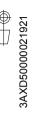


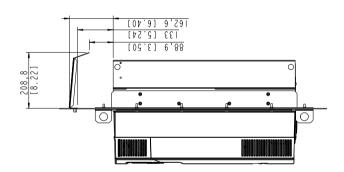
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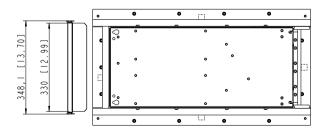


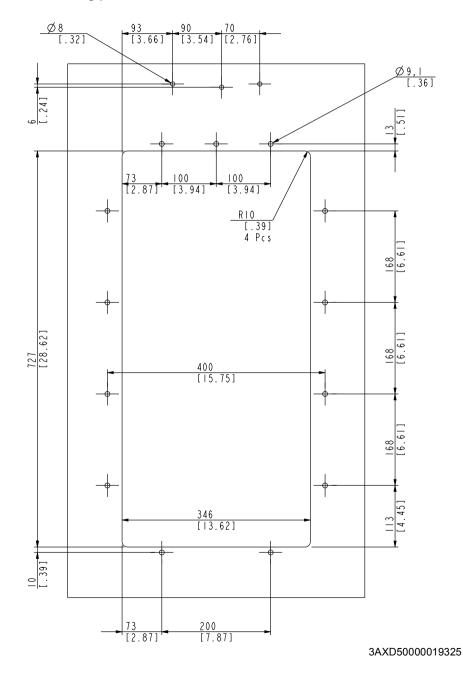
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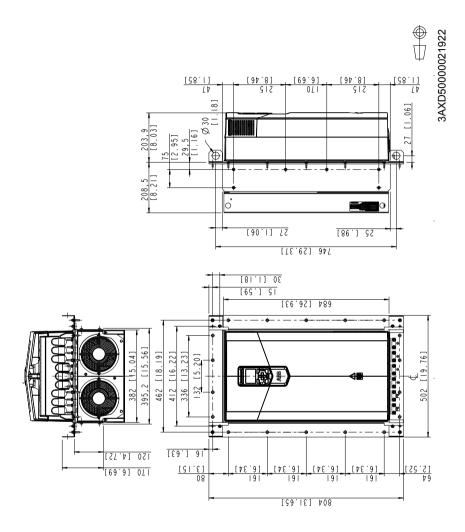




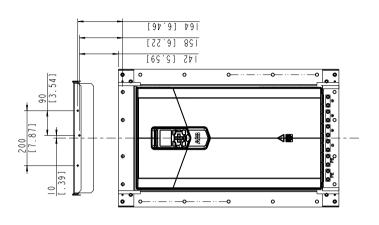




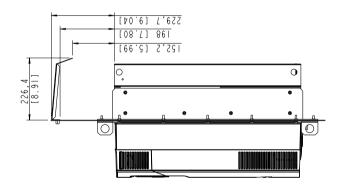




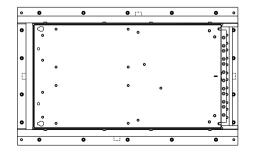
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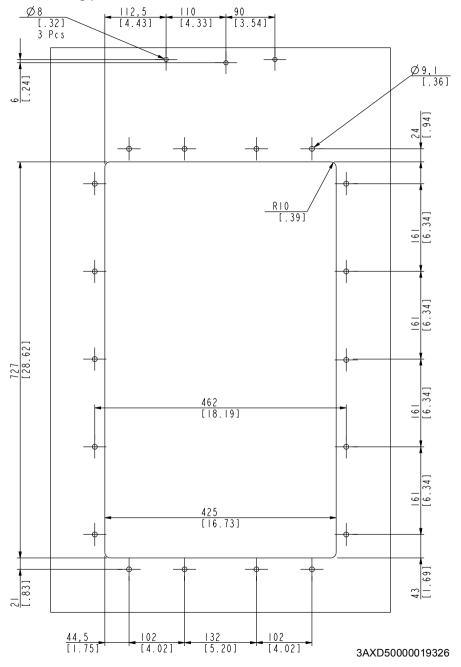








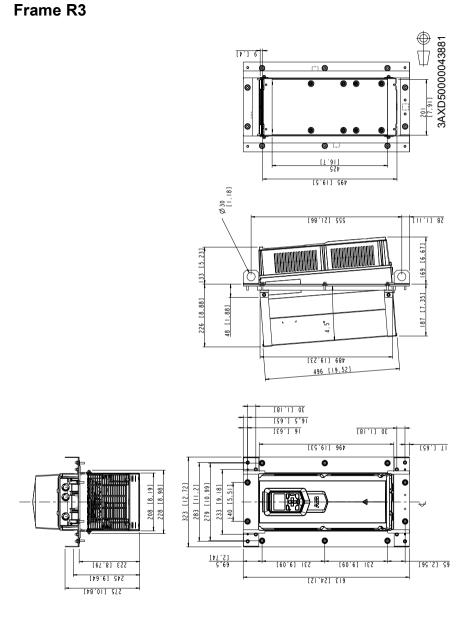


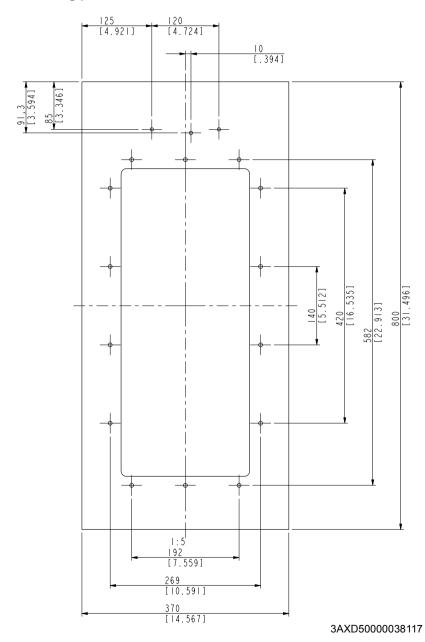


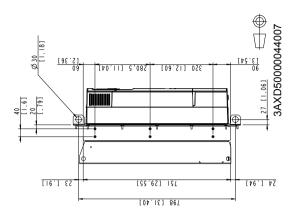
Dimension drawings for ACS880-11 and ACS880-31

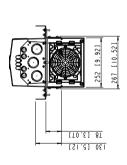
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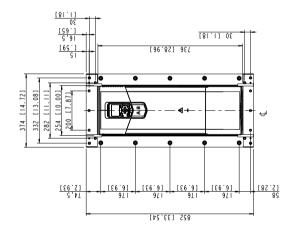
This chapter contains the dimension drawings of the flange mounting kits and required openings in the mounting plate.



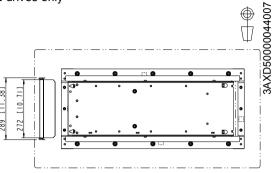


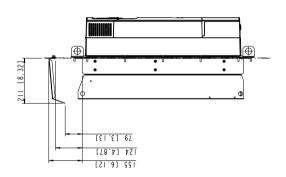


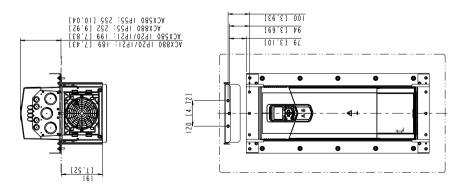


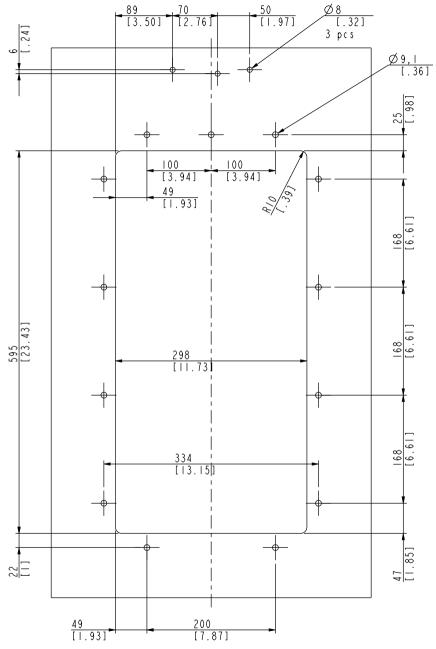




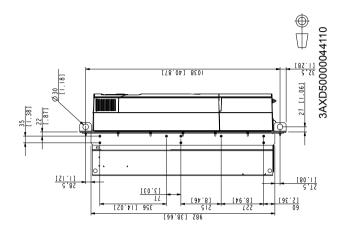


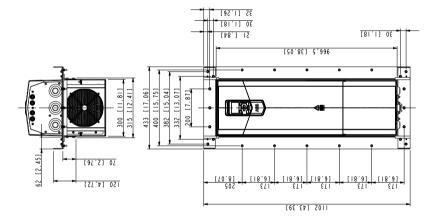




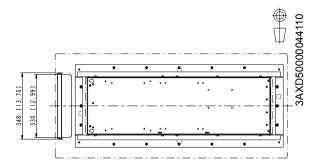


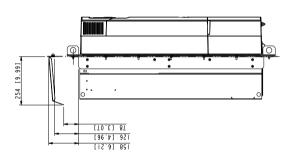
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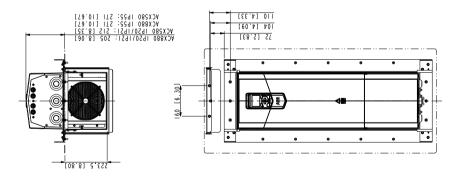


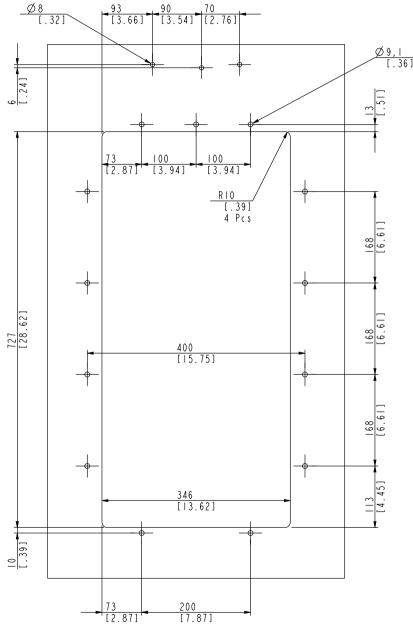


Hood is needed for UL Type 12 drives only









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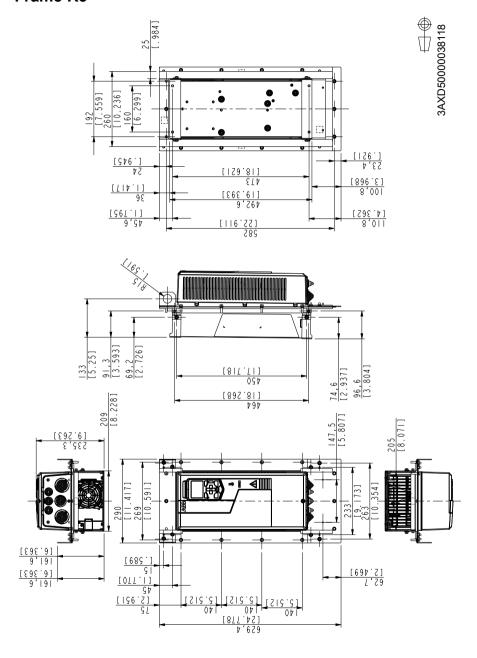


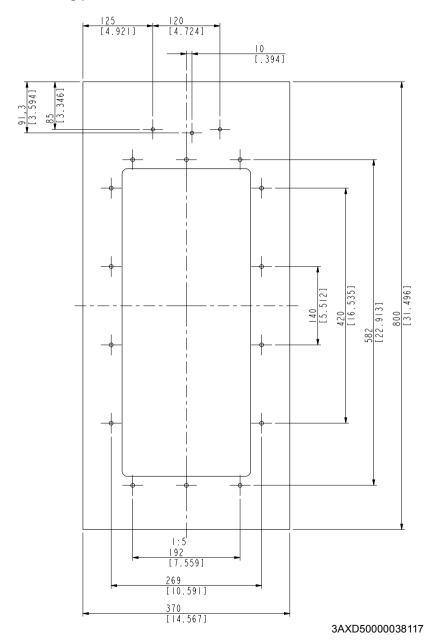
Dimension drawings for ACH580-31 and ACQ580-31

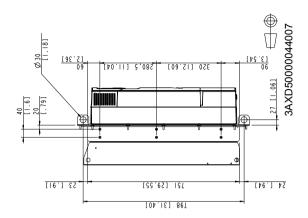
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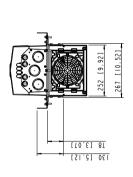
This chapter contains the dimension drawings of the flange mounting kits and required openings in the mounting plate.

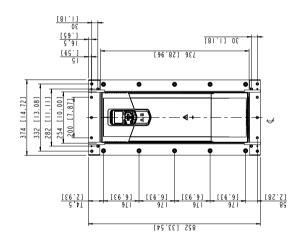
Note! Some dimension drawings display the face of the ACH580-31 model instead of the ACQ580-31 model and vice versa. The dimensions are still applicable for both models.



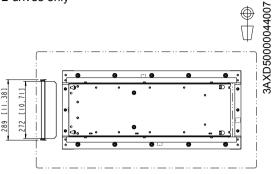


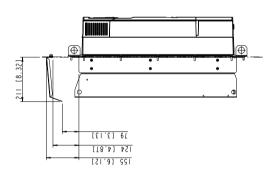


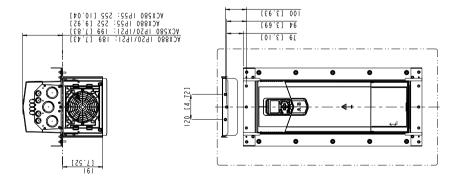


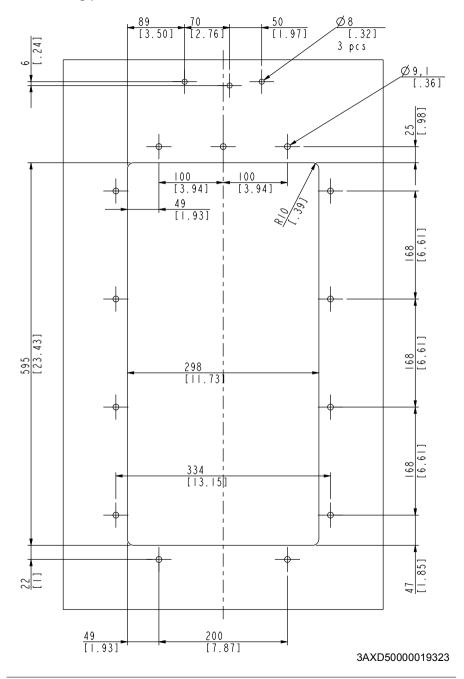


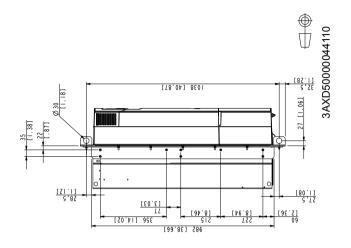


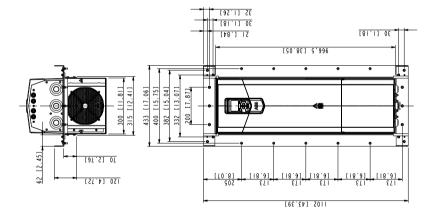




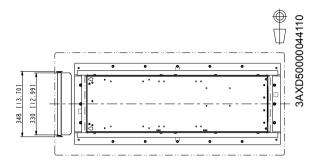


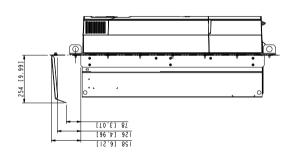


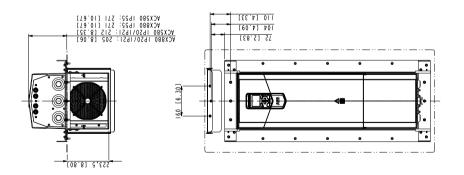


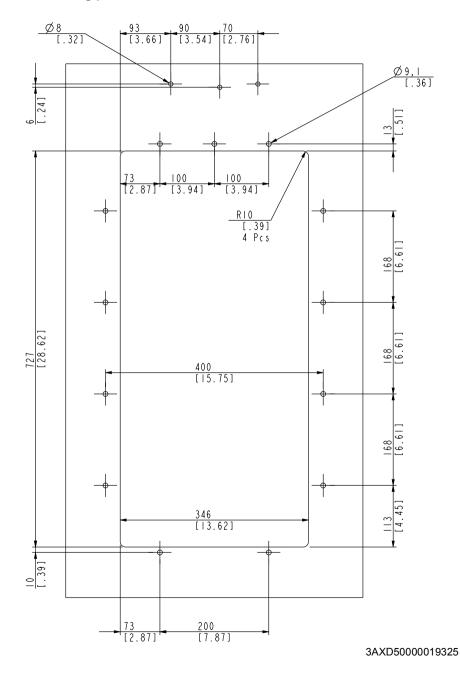


Hood is needed for UL Type 12 drives only







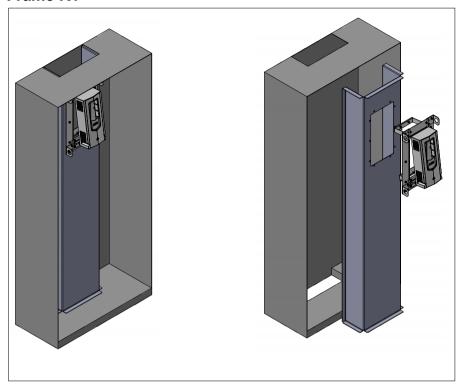


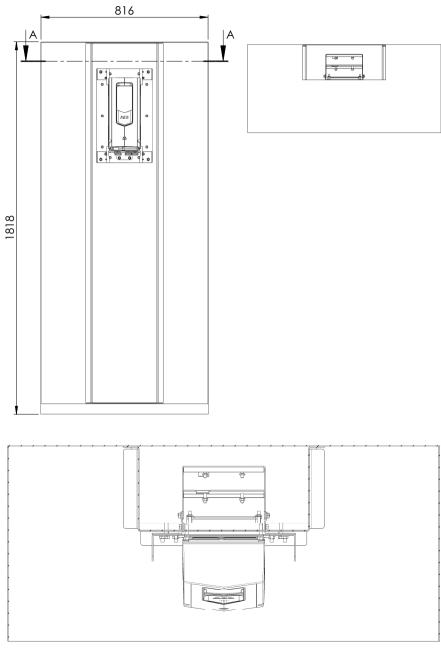


ACS880-01 mounting examples

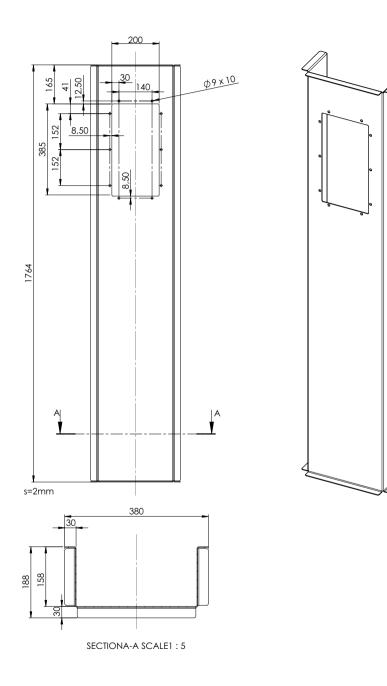
Contents of this chapter

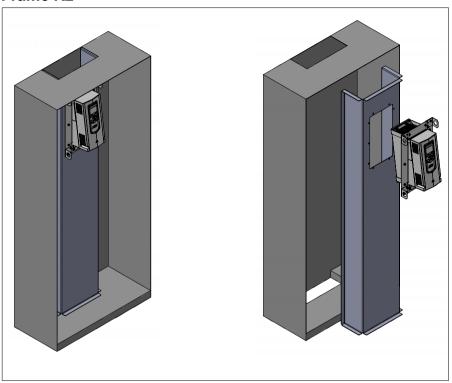
This chapter contains ACS880-01 flange mounting examples in a cooling channel.

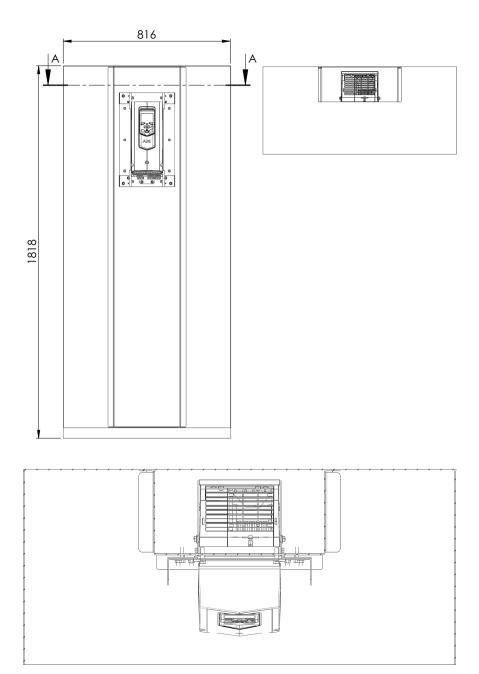




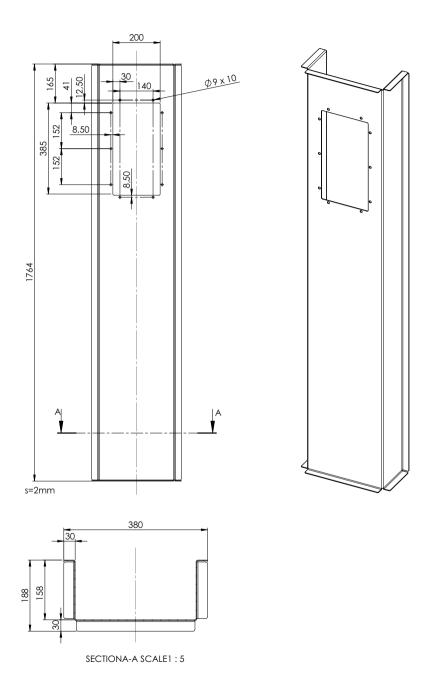
A-A (1:5)

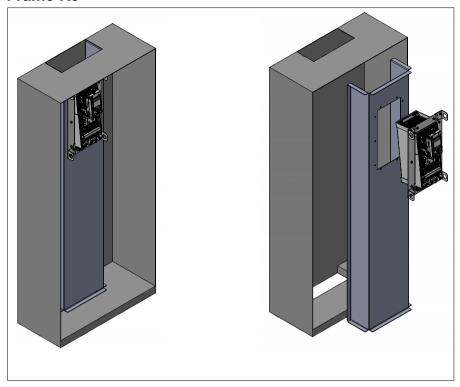


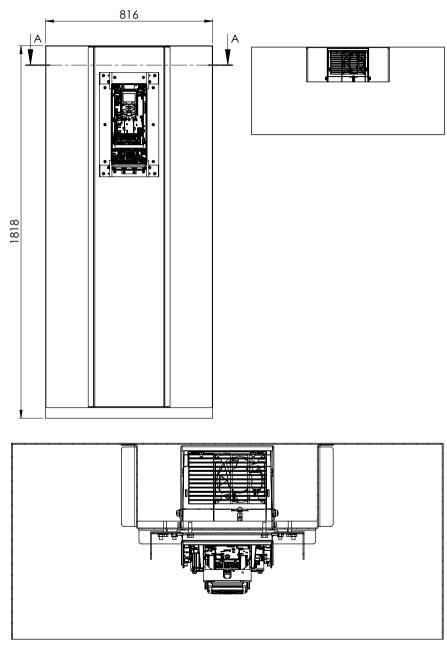




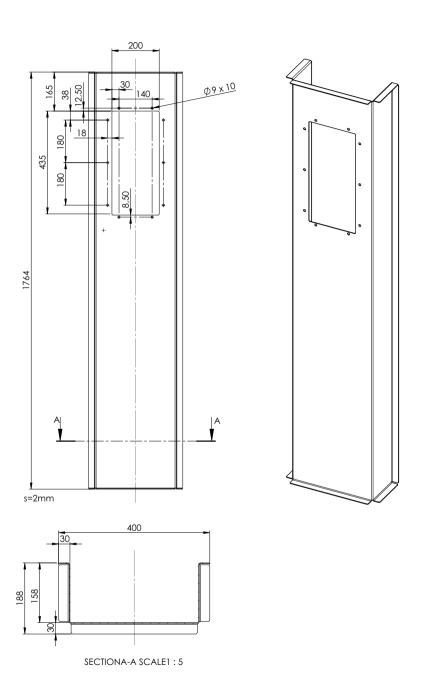
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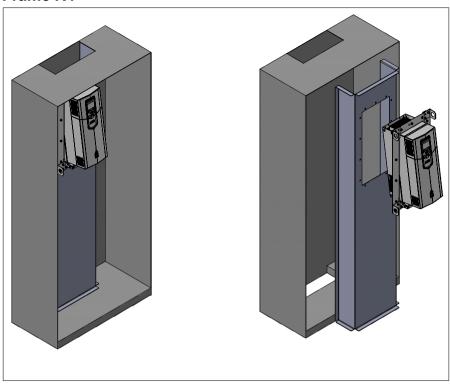


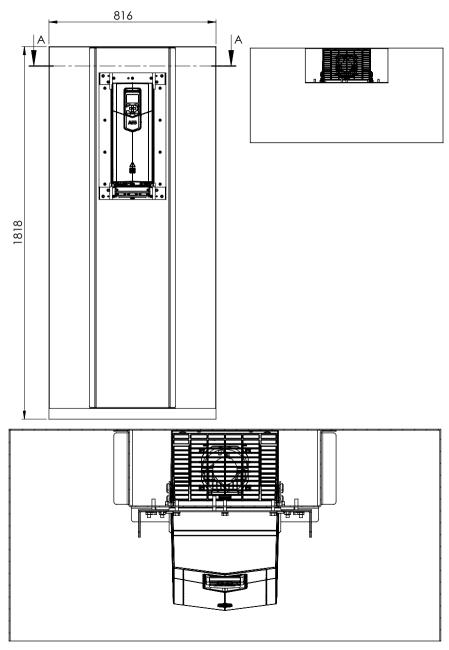




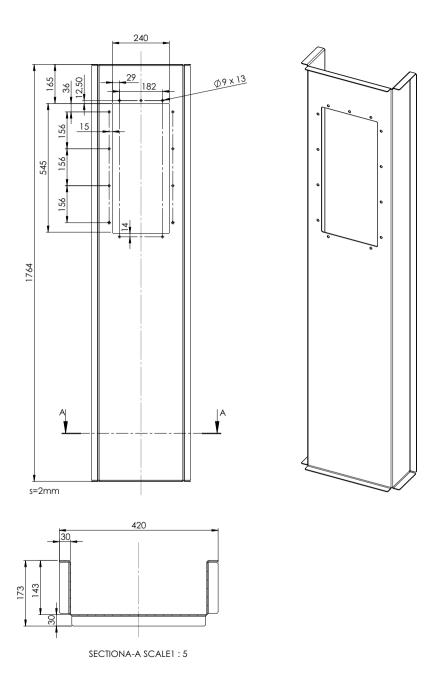
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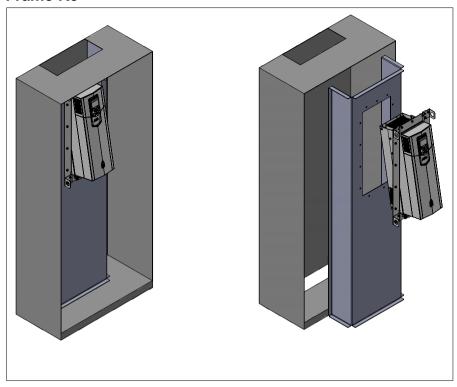


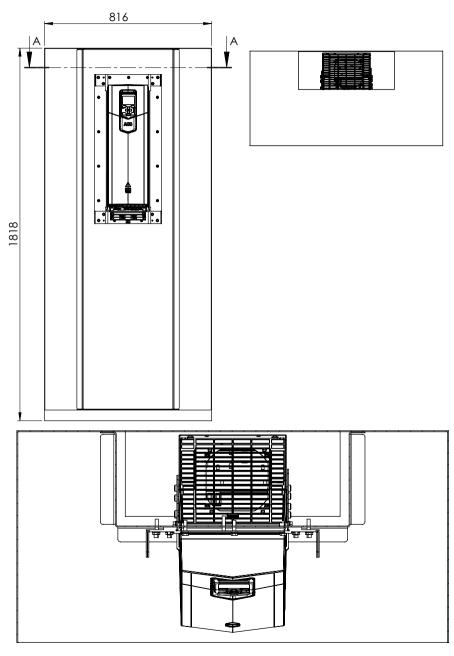




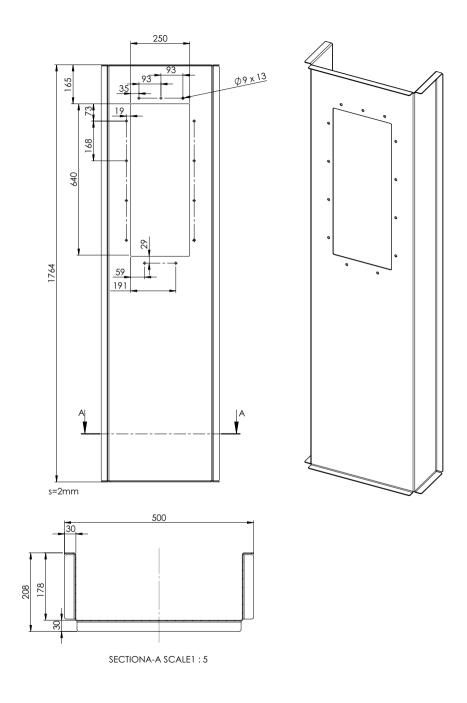
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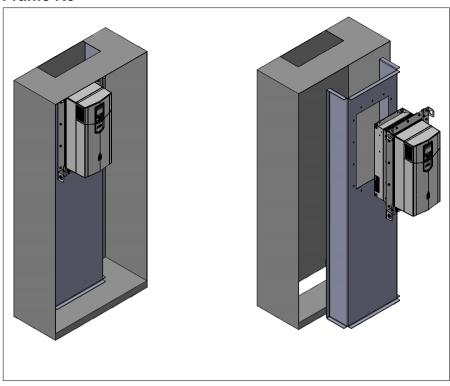


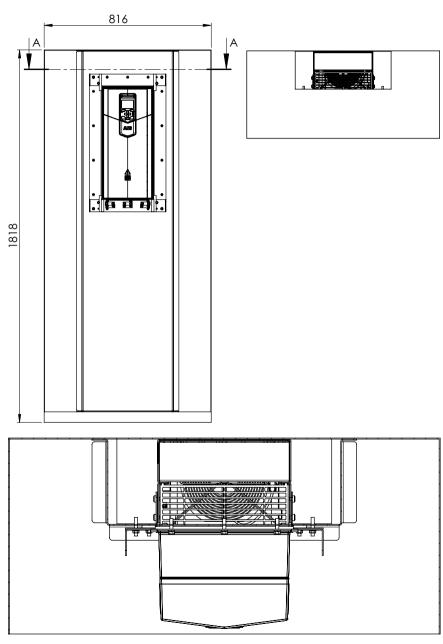




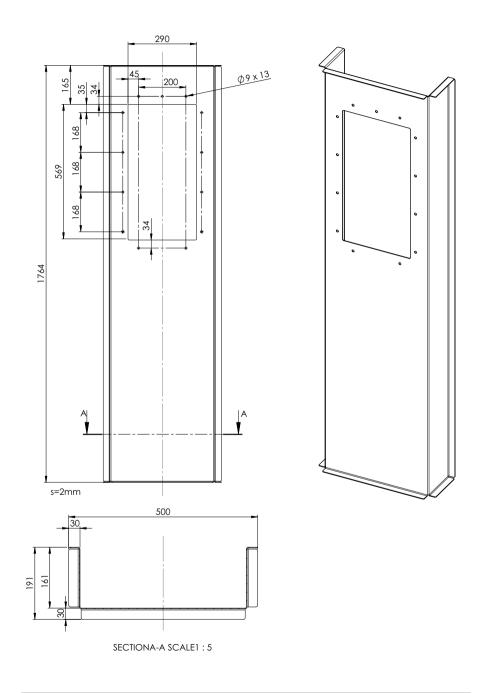
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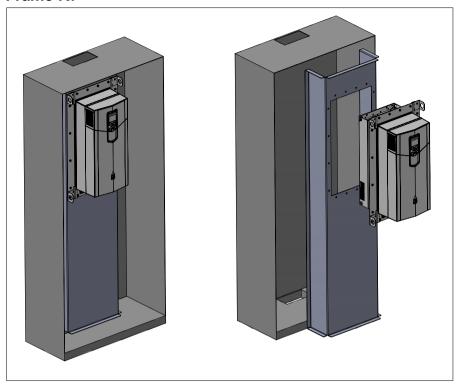


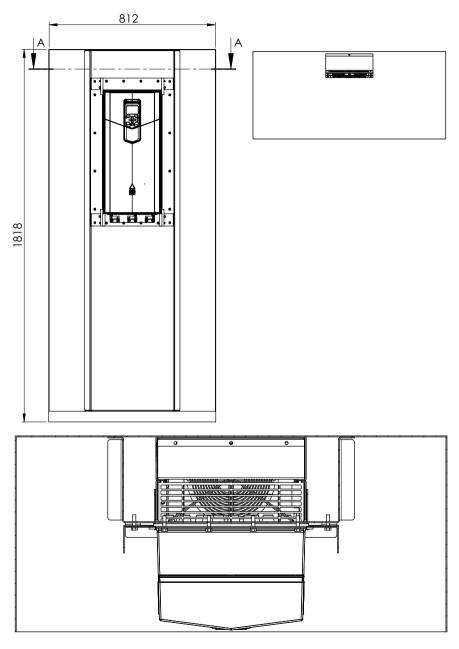




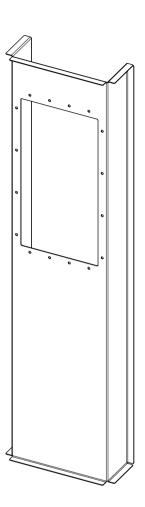
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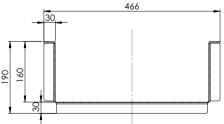




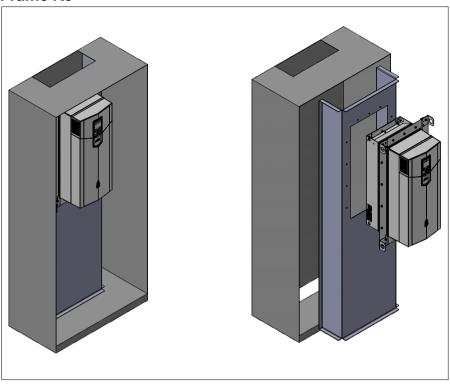


A-A (1:5)

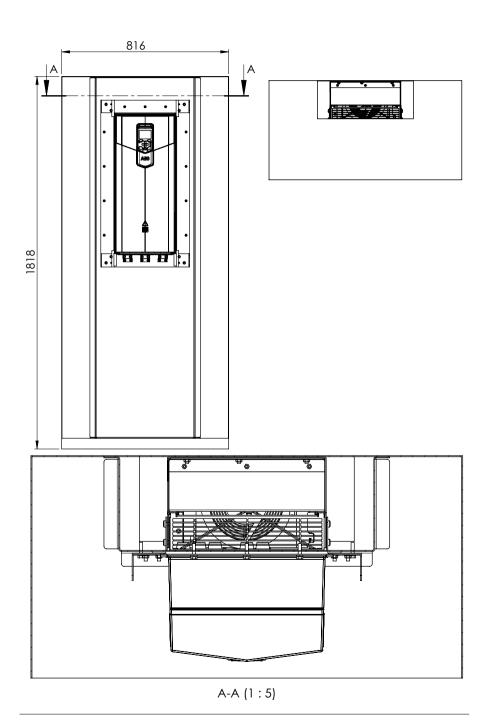


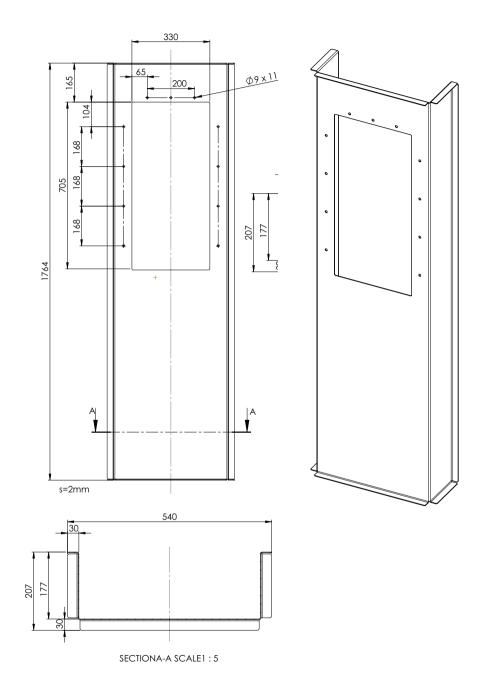


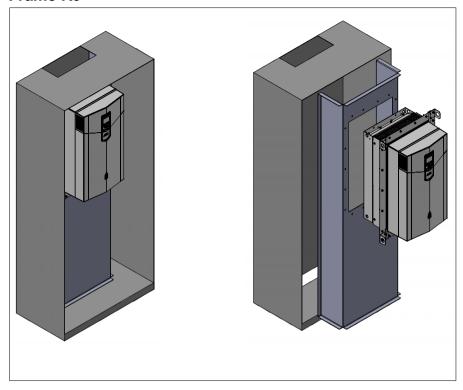
SECTIONA-A SCALE1: 5

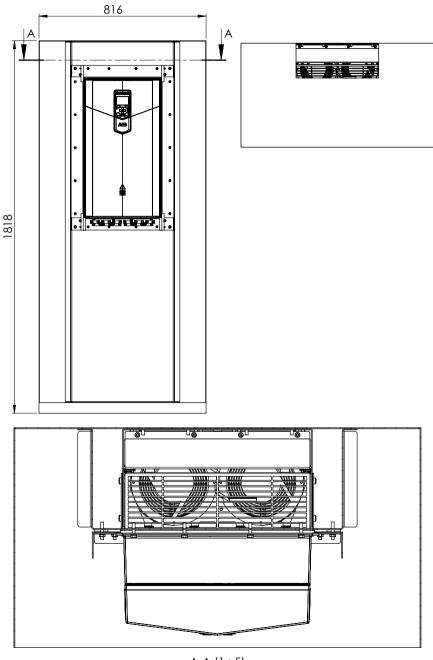




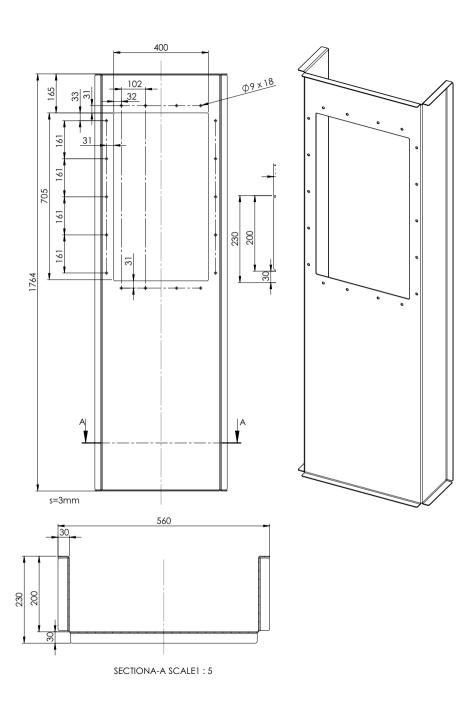








A-A (1:5)



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.

Product training

For information on ABB product training, navigate to new.abb.com/service/training.

Providing feedback on ABB Drives manuals

Your comments on our manuals are welcome. Navigate to new.abb.com/drives/manuals-feedback-form.

Document library on the Internet

You can find manuals and other product documents in PDF format on the Internet at www.abb.com/drives/documents.

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