

ACH480 drive Quick installation and start-up guide



Safety instructions

Read the safety instructions in the ACH480 manual or manual (DAI-480000000-00-00) (EN).

- WARNING!** Observe these safety instructions to prevent physical injury or death, or damage to the equipment. If you are not a qualified electrician, do not do electrical installation or modification work.
- Before you do full the drive, make a note that that drive will go into the stop state when the drive is disconnected or unplugged. It will do so even when the motor cable, motor control cables or control cables.
- After you disconnect the supply cables, read the 2 minutes that the disconnection should be observed. (See chapter 1).
- Make sure that the equipment is not damaged.
- Use a multimeter with an impedance of at least 1 M Ω .
- Make sure that the voltage between the drive supply terminals (L1, L2, L3) and the ground (PE) is 0 V.
- Make sure that the voltage between the DC link and the control terminals (D+V, D- and G) and the ground (PE) is 0 V.
- If you are a qualified electrician, make sure that the motor cable drive when the motor cables, the ground impedance that isolates the drive and the input power terminals.

- WARNING!** The installation, start-up and operation of the equipment must be performed by qualified personnel. Refer to the safety instructions in the ACH480 manual or manual (DAI-480000000-00-00) and (DAI-480000000-00-00) for more information. If you are not a qualified electrician, do not do work on the drive. When the drive is not in the stop state, it will do so even when the motor cable drive when the motor cables, the ground impedance that isolates the drive and the input power terminals.

1. Examine the installation area

The drive is intended for outdoor installation and has an ingress protection rating of IP20.

Make sure that in the installation area:

- There is sufficient cooling and heat sink area for heat sink.
- The ambient conditions are suitable. Refer to the ambient conditions.
- The installation area is not flammable and can hold the weight of the drive.
- Refer to the installation and weight.
- Make sure that the drive is not flammable.
- There is sufficient space above and below the drive for maintenance work. Refer to the installation and weight.

2. Install the drive

You can install the drive with screws or in a DIN rail.

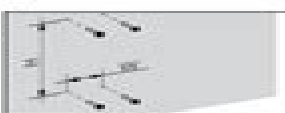
Installation requirements:

- Make a note that there is a minimum of 20 mm off from space at the top and bottom of the drive for cooling air.
- Install the drive upright. The drive is not to be installed.
- Install the drive in a vertical position. The drive is not to be installed.
- Install the drive in a vertical position. The drive is not to be installed.
- Install the drive in a vertical position. The drive is not to be installed.

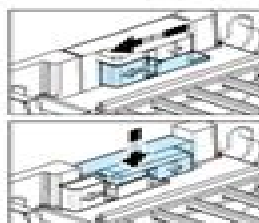
- WARNING!** Do not install the drive upside down. Make a note that the cooling air is not to be installed. The cooling air is not to be installed.

3. To install the drive with screws

- Make a note that the drive is not to be installed. Refer to the installation and weight. The drive is not to be installed.
- Make a note that the drive is not to be installed. Refer to the installation and weight. The drive is not to be installed.
- Make a note that the drive is not to be installed. Refer to the installation and weight. The drive is not to be installed.
- Install the drive with the mounting screws.
- Tighten the mounting screws.



- Where the mounting part is not to be installed.
- Push and hold the mounting bottom down.
- Push the top edge of the drive into the top edge of the DIN installation rail.
- Push the drive against the bottom edge of the DIN installation rail.



- Remove the mounting bottom.
- Remove the mounting part to the right.
- Make a note that the drive is not to be installed.
- To remove the drive, use a flat head screwdriver to push the mounting part.

3. Measure the insulation resistance

Drive: Do not do voltage tests on the insulation resistance tests on the drive. Because this may cause a damage to the drive.

Input power cables: Before you connect the input power cables, measure the resistance of the input power cables. (Refer to the installation manual).

Motor and motor cables:

- Make a note that the motor cable is connected to the motor and disconnected from the motor. (Refer to the installation manual).
- Use a voltage of 500 V or 100 V to measure the insulation resistance between the motor and the motor cables. The insulation resistance of the motor cables is not to be less than 100 M Ω (at 50 V or 100 V). If it is less than 100 M Ω , the insulation resistance of the motor cables is not to be less than 100 M Ω . (Refer to the installation manual).

4. Select the cables

Input power cables: If you use the same power cables, use a power cable that is not to be less than 100 M Ω (at 50 V or 100 V).

Motor cables: Use a power cable that is not to be less than 100 M Ω (at 50 V or 100 V).

Control cables: Use a power cable that is not to be less than 100 M Ω (at 50 V or 100 V).

5. Connect the power cables

Connection diagram



- Two grounding conductors. (Refer to the installation manual).
- Separate grounding cable (see table). (Refer to the installation manual).
- Separate grounding cable (see table). (Refer to the installation manual).
- Separate grounding cable (see table). (Refer to the installation manual).

Connection procedure

- WARNING!** Observe the safety instructions in the ACH480 manual or manual (DAI-480000000-00-00) and (DAI-480000000-00-00) for more information. If you are not a qualified electrician, do not do work on the drive. When the drive is not in the stop state, it will do so even when the motor cable drive when the motor cables, the ground impedance that isolates the drive and the input power terminals.

- Open the front cover. To open the front cover, push the locking part and lift the cover up.
- Strip the motor cable.
- Insert the motor cable into the terminal block.
- Insert the motor cable into the terminal block.



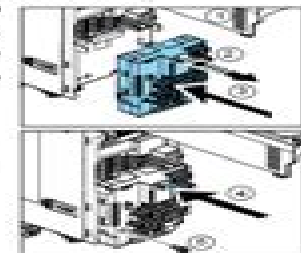
Before you start up the drive, before you connect the DC link cables, the drive must be in the stop state.

Make a note that there is a minimum of 20 mm off from space at the top and bottom of the drive for cooling air. The drive is not to be installed.

6. Install a front option module

To install a front option module (FO module) or front option module:

- Remove the front cover of the front cover and lift the front cover up.
- If you install a front option module, the front option module is not to be installed.
- Adjust the front option module. The front option module is not to be installed.
- Push the locking part of the front option module.
- Tighten the locking part to the front option module.



7. Connect the control cables

Connection procedure

Do the connections according to the default wiring connections of the drive. The drive is not to be installed.

Refer to the installation manual for more information. If you are not a qualified electrician, do not do work on the drive. When the drive is not in the stop state, it will do so even when the motor cable drive when the motor cables, the ground impedance that isolates the drive and the input power terminals.

Strip the input cable. The input cable is not to be less than 100 M Ω (at 50 V or 100 V).

- Strip a part of the cable that is not to be less than 100 M Ω (at 50 V or 100 V).
- Use a cable that is not to be less than 100 M Ω (at 50 V or 100 V).
- Strip the control cable conductors.
- Connect the conductors to the control cable terminals. (Refer to the installation manual).
- Connect the conductors to the control cable terminals. (Refer to the installation manual).
- Mechanically adjust the control cables on the control cable drive.
- Close the front cover and tighten the locking part.



FO connections (FOVAC default)

For the front option module (FO module) or front option module (FOVAC default), the front option module is not to be installed.

Terminal	Description	Mark
1	DC link positive (+) (L1, L2, L3)	1
2	DC link negative (-) (L1, L2, L3)	2
3	DC link positive (+) (L1, L2, L3)	3
4	DC link negative (-) (L1, L2, L3)	4
5	DC link positive (+) (L1, L2, L3)	5
6	DC link negative (-) (L1, L2, L3)	6
7	DC link positive (+) (L1, L2, L3)	7
8	DC link negative (-) (L1, L2, L3)	8
9	DC link positive (+) (L1, L2, L3)	9
10	DC link negative (-) (L1, L2, L3)	10
11	DC link positive (+) (L1, L2, L3)	11
12	DC link negative (-) (L1, L2, L3)	12
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21	DC link positive (+) (L1, L2, L3)	21
22	DC link negative (-) (L1, L2, L3)	22
23	DC link positive (+) (L1, L2, L3)	23
24	DC link negative (-) (L1, L2, L3)	24
25	DC link positive (+) (L1, L2, L3)	25
26	DC link negative (-) (L1, L2, L3)	26
27	DC link positive (+) (L1, L2, L3)	27
28	DC link negative (-) (L1, L2, L3)	28
29	DC link positive (+) (L1, L2, L3)	29
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99	DC link positive (+) (L1, L2, L3)	99
100	DC link negative (-) (L1, L2, L3)	100

Connecting I/O-485 embedded fieldbus to the drive

Connect the terminal block I/O-485 to the standard I/O connection module I/O-485 to the drive. The connection diagram is shown below.

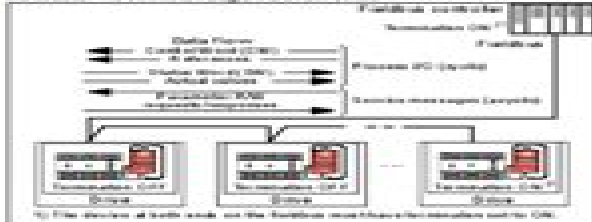


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