

ACS180 drives Quick installation and start-up guide



Safety instructions

WARNING Always observe safety instructions. Do not touch the drive or its components before, during or after the installation. Do not touch the drive or its components before, during or after the installation. Do not touch the drive or its components before, during or after the installation.

- Do not do work on the drive, motor cables, motor or control cables when the drive is energized. The drive is energized when the power switch is on. The drive is energized when the power switch is on. The drive is energized when the power switch is on.
- Do not do work on the drive when a rotating permanent magnet motor is connected to it. A rotating permanent magnet motor imparts the drive, including for input and output.

1. Unpack the delivery

Keep the drive in its packaging until you are ready to install it. After unpacking, protect the drive from dust and moisture. Make sure that the drive is not damaged. Make sure that the drive is not damaged. Make sure that the drive is not damaged.

2. Reform the capacitors

If the drive has not been powered up for a year or more, you must reform the DC link capacitors. The manufacturing plant is not able to discharge them. Refer to the user manual for more information.

3. Select the cables and fuse

- Input power cables:** Select the cable type and size according to the input power (kW) and the input voltage (V). Select the cable type and size according to the input power (kW) and the input voltage (V).
- Motor cables:** Select the cable type and size according to the motor power (kW) and the motor voltage (V). Select the cable type and size according to the motor power (kW) and the motor voltage (V).
- Control cables:** Select the cable type and size according to the control power (W) and the control voltage (V). Select the cable type and size according to the control power (W) and the control voltage (V).

4. Examine the installation area

- Examine the area where you will install the drive. Make sure that the installation area is sufficiently ventilated and that air does not recirculate. The installation area is sufficiently ventilated and that air does not recirculate.
- Examine the area where you will install the drive. Make sure that the installation area is sufficiently ventilated and that air does not recirculate. The installation area is sufficiently ventilated and that air does not recirculate.

5. Install the drive

- Install the drive with screws, or a DIN rail (for 180, 200, 300, 400 kW). Install the drive with screws, or a DIN rail (for 180, 200, 300, 400 kW).
- Install the drive with screws, or a DIN rail (for 180, 200, 300, 400 kW). Install the drive with screws, or a DIN rail (for 180, 200, 300, 400 kW).

To install the drive with screws



- Make sure the surface for the mounting is flat and clean. Make sure the surface for the mounting is flat and clean.
- Make sure the surface for the mounting is flat and clean. Make sure the surface for the mounting is flat and clean.

1. Mount the drive on the left or right side of the frame using the screws. Mount the drive on the left or right side of the frame using the screws.
2. Mount the drive on the left or right side of the frame using the screws. Mount the drive on the left or right side of the frame using the screws.
3. Mount the drive on the left or right side of the frame using the screws. Mount the drive on the left or right side of the frame using the screws.



6. Measure the insulation resistance

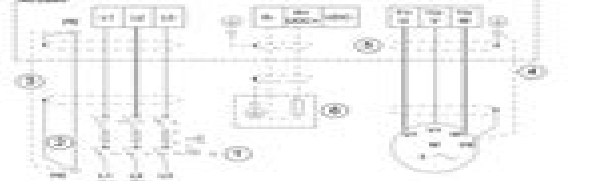
- Measure the insulation resistance of the drive before it is connected to the power supply. Measure the insulation resistance of the drive before it is connected to the power supply.
- Measure the insulation resistance of the drive before it is connected to the power supply. Measure the insulation resistance of the drive before it is connected to the power supply.

7. Make sure that the drive is compatible with the grounding system

System	System voltage	System frequency	System power	System current
180	380 V	50/60 Hz	180 kW	300 A
200	380 V	50/60 Hz	200 kW	330 A
300	380 V	50/60 Hz	300 kW	500 A
400	380 V	50/60 Hz	400 kW	660 A

8. Connect the power cables

Connection diagram (shielded cables)



1. Connect the power cables to the drive. Connect the power cables to the drive.
2. Connect the power cables to the drive. Connect the power cables to the drive.
3. Connect the power cables to the drive. Connect the power cables to the drive.

Connection procedure (shielded cables)

1. Strip the insulation from the power cables. Strip the insulation from the power cables.
2. Strip the insulation from the power cables. Strip the insulation from the power cables.
3. Strip the insulation from the power cables. Strip the insulation from the power cables.

9. Connect the control cables

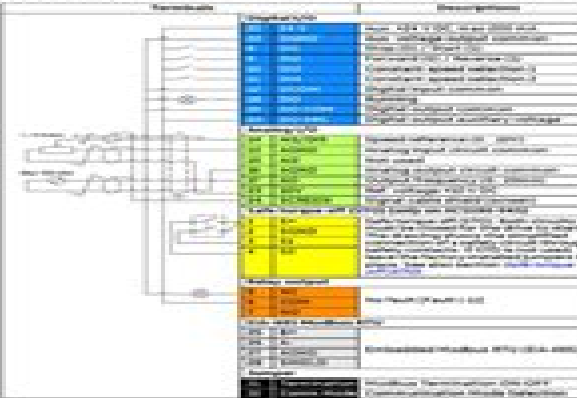
Connection procedure

1. Connect the control cables to the drive. Connect the control cables to the drive.
2. Connect the control cables to the drive. Connect the control cables to the drive.
3. Connect the control cables to the drive. Connect the control cables to the drive.

4. Connect the control cables to the drive. Connect the control cables to the drive.
5. Connect the control cables to the drive. Connect the control cables to the drive.

Default I/O connections (ABB standard macro)

The ABB standard macro is the default macro. The connection diagram for the ABB standard macro is shown below.



Notes: The connection diagram is for the ABB standard macro. The connection diagram for the ABB standard macro is shown below.

Signal	Signal name	Signal type	Signal description
1	Start	Digital input	Start signal
2	Stop	Digital input	Stop signal
3	Forward	Digital input	Forward signal
4	Reverse	Digital input	Reverse signal
5	Brake	Digital input	Brake signal
6	Overload	Digital input	Overload signal
7	Fault	Digital input	Fault signal
8	Speed feedback	Analog input	Speed feedback signal
9	Position feedback	Analog input	Position feedback signal
10	Reference	Analog input	Reference signal
11	Reference	Analog input	Reference signal
12	Reference	Analog input	Reference signal
13	Reference	Analog input	Reference signal
14	Reference	Analog input	Reference signal
15	Reference	Analog input	Reference signal
16	Reference	Analog input	Reference signal
17	Reference	Analog input	Reference signal
18	Reference	Analog input	Reference signal
19	Reference	Analog input	Reference signal
20	Reference	Analog input	Reference signal

Embedded feedback connection

- 1. Connect the feedback cable to the drive. Connect the feedback cable to the drive.
- 2. Connect the feedback cable to the drive. Connect the feedback cable to the drive.



1. Connect the feedback cable to the drive. Connect the feedback cable to the drive.
2. Connect the feedback cable to the drive. Connect the feedback cable to the drive.

10. Start up the drive

WARNING Before you start up the drive, make sure that the installation is correct. Make sure that the installation is correct. Make sure that the installation is correct.

For information on the user interface, refer to the user manual or the user manual.

1. Select the drive type and size. Select the drive type and size.
2. Select the drive type and size. Select the drive type and size.
3. Select the drive type and size. Select the drive type and size.
4. Select the drive type and size. Select the drive type and size.
5. Select the drive type and size. Select the drive type and size.
6. Select the drive type and size. Select the drive type and size.
7. Select the drive type and size. Select the drive type and size.
8. Select the drive type and size. Select the drive type and size.
9. Select the drive type and size. Select the drive type and size.
10. Select the drive type and size. Select the drive type and size.

Abb S4 Programming Manual

Peter Kopacek, Dragica Noe



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