

ACS355 drives

Quick installation and start-up guide



Safety instructions

WARNING! Observe these instructions, if you ignore them, injury or death, or damage to the equipment can occur. If you are not a qualified electrical professional, do not do electrical installation or maintenance work.

- Keep the drive in its package until you install it. After unpacking, protect the drive from dust, debris and moisture.
- Use the required personal protection equipment, safety shoes with antistatic sole, safety glasses, protective gloves and long sleeves, etc.
- When the drive is connected to equipment, do not do work on the drive, input cables, motor, control cables or control circuitry.
- Do not do work on the drive when a rotating permanent magnet motor is connected to it. A rotating permanent magnet motor energizes the drive, including the input power supply terminals.

Electrical safety precautions

- Clearly identify the work location and equipment.
- Disconnect all possible voltage sources. Make sure that reconnection is not possible. Lock out and tag out.
 - Open the main disconnecting device of the drive.
 - If you have a permanent magnet motor connected to the drive, disconnect the motor from the drive.
 - Disconnect any dangerous external voltage from the control circuitry.
 - After you disconnect power from the drive, always wait 5 minutes to let the intermediate circuit capacitors discharge before you continue.
- Protect any other energized parts in the work location against contact.

- Take special precautions when close to bare conductors.
- Measure the insulation resistance in the conductors.
 - Use a multimeter with a minimum impedance of 1 M Ω .
 - Make sure that the voltage between the drive input power terminals (U1, U2, U3) and the ground (PE) is above 50 V.
 - Make sure that the voltage between the drive output terminals (D1, D2, D3) and the ground (PE) is above 50 V.
 - Make sure that the voltage between the drive DC terminals (D+ and D-) and the ground (PE) is above 50 V.
- Install temporary grounding as required by the local regulations.
- Apply the process to control of the electrical installation work for a period to comply.

See the drive user's manual for the complete safety instructions.

1. Examine the installation area

The drive is intended for cabinet installation and has a degree of protection of IP20 (2 M, open type as standard).

- Make sure that in the installation area:
- There is sufficient space above and below the drive for cooling, and that air flows and circulates. Refer to the cooling air flow diagram in the user's manual.
 - The ambient conditions are suitable. Refer to ambient conditions.
 - The mounting surface is non-flammable and can hold the weight of the drive. Refer to the weight of the drive.
 - Mounting holes in the drive are non-flammable.
 - There are no sources of strong magnetic fields, such as high-current straight-line conductors or conductors with near the drive. A strong magnetic field can cause interference in the operation of the drive.

2. Install the drive

Use the provided drive with screws or for a DIN rail (Type M4, M5 or M6 x 30 + 3.5 mm) (2.4 + 0.3 kg).

- Make sure that there is a minimum of 10 mm (3/8") top air free space above and below the drive for the cooling air flow.
- When gluing drives on top of each other in a panel or cabinet, make sure that the top air from the drives below do not directly enter the drive above.

WARNING! Do not install the drive upside down. Make sure that the cooling air outlet is at the top in order to avoid the cooling air inlet at the bottom.

To install the drive with screws

- Cut out the mounting bracket from the enclosure and use it to mark the locations for the mounting holes.
- Mark the location for the mounting screws and install outside plugs or adapters.



1. Short to ground the terminals like the mounting holes.

2. Place the drive into the mounting screws.

3. Tighten the mounting screws securely.

4. To install the drive to a DIN rail

1. Place the top of the drive onto the DIN bracket like the mounting holes.

2. Set the drive against the rail.

3. To remove the drive, reverse the above steps in reverse order of the drive.

3. Attach the clamping plates

1. Fasten the clamping plate to the bottom of the drive with the provided screws.

2. Fasten the top clamping plate to the top of the drive with the provided screws.

4. Measure the insulation resistance

Measuring the insulation is typically not required in North America.

Notes: Do not do voltage tolerance or insulation resistance tests on the drive, because this can cause damage to the drive.

Input power cable: Before you connect the input power cable, measure the insulation resistance of the input power cable. Observe the local regulations.

Motor and motor cable:

1. Make sure that the motor cable is connected to the motor and disconnected from the drive output terminals (D1, D2 and D3).

2. Use a voltage of 500V or DC to measure the insulation resistance between each phase conductor and the protective earth conductor. The insulation resistance of an AC motor should be more than 500 M Ω (at 25 °C/77 °F). For the insulation resistance of other motors, refer to the manufacturer's documentation. Measure in the motor because the insulation resistance of any electrical device is higher at a lower temperature. Measure the motor and do the measurement again.

5. Select the cables

Input power cable (AC/DC): IEC/UL 60309-2 requiring three protective earth (ground) conductors. Prefer a symmetrical shielded cable (S/SC) cable. For the best EMC performance, use a shield (the European EMC requirements).

Control cable: Use a shielded twisted-pair cable for analog signals. Use a shielded twisted-pair cable for digital, relay and I/O signals. Do not mix DC and AC/DC signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)



1. Make sure that the motor cable is connected to the motor and disconnected from the drive output terminals (D1, D2 and D3).

2. Use a voltage of 500V or DC to measure the insulation resistance between each phase conductor and the protective earth conductor. The insulation resistance of an AC motor should be more than 500 M Ω (at 25 °C/77 °F). For the insulation resistance of other motors, refer to the manufacturer's documentation. Measure in the motor because the insulation resistance of any electrical device is higher at a lower temperature. Measure the motor and do the measurement again.

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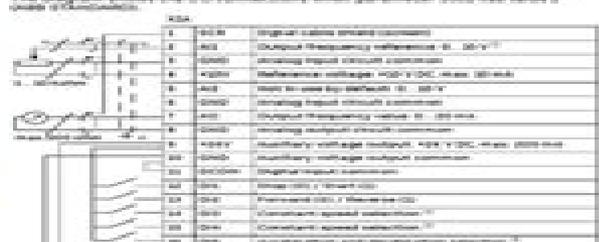
Connection diagram (shielded cables)

| Power size | Rating | PE |
|------------|--|--|
| 500...500 | 500 V AC, 500 V DC, 500 V DC, 500 V DC | 500 V AC, 500 V DC, 500 V DC, 500 V DC |
| 500...500 | 500 V AC, 500 V DC, 500 V DC, 500 V DC | 500 V AC, 500 V DC, 500 V DC, 500 V DC |
| 500...500 | 500 V AC, 500 V DC, 500 V DC, 500 V DC | 500 V AC, 500 V DC, 500 V DC, 500 V DC |

7. Connect the control cables

Default I/O connections

The diagram shows the I/O connections when parameter 2007 has value 0 (user's manual).



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WARNING! Before you start up the drive, make sure that the installation is complete. Make sure that the cover of the drive is in place. Make sure that the main drive terminal block is properly connected. Observe the safety instructions in the user's manual.

Start up without a control panel

- Apply input power and wait for a moment.
- Check that the red LED is not lit and the green LED is lit but not blinking. The drive is now ready for use.

Start up with a control panel (manual start-up)

You can use the built-in control panel or the external control panel. The built-in control panel is the default configuration. When the drive is started, the built-in control panel will be active. Before you start, make sure you have the motor nameplate data at hand.

WARNING!

Apply input power to the main drive terminal block only. Do not connect the control panel to the output terminals.

The external control panel will be active when the drive is started. The built-in control panel will be active when the drive is started. Before you start, make sure you have the motor nameplate data at hand.

STOP

0.0

ABB ACS355

Doc User Manual Abb

Lingsheng Yao



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