

ACS355 drives

Quick installation and start-up guide



Safety instructions

WARNING! Obey 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 voltages 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 control circuitry.
 - 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 within the 0 V to 24 V range.
 - Make sure that the voltage between the drive output terminals (D1, D2, D3) and the ground (PE) is close to 0 V.
 - Make sure that the voltage between the drive DC terminals (D4+ and D4-) and the ground (PE) is close to 0 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 data in the user's manual.
 - Mounting near 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 35 + 35 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 does not get the top in above the cooling air side of the cabinet.

To install the drive with screws

- Cut out the mounting bracket from the enclosure and use it to mark the location 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 output 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.

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 and to meet the European EMC requirements.

Control cable: Use a shielded twisted-pair cable for analog signals. Use a shielded twisted-pair cable for digital signals. For the best EMC and IEC/UL 60309-2 signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)

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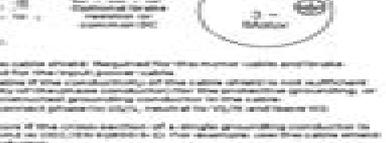
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Connection diagram (shielded cables)



Power line	Lightning protection	PE
U1, U2, U3	U1, U2, U3, PE	PE
D1, D2, D3	D1, D2, D3, PE	PE
D4+, D4-, PE	D4+, D4-, PE	PE
D1, D2, D3, D4+, D4-, PE	D1, D2, D3, D4+, D4-, PE	PE

7. Connect the control cables

Default I/O connections

The diagram shows the I/O connections when parameter 0007 has value 0 (user's manual).



1. Cable used as a speed reference (if motor speed reference is used). See the user's manual for more information.

2. Cable used as a speed reference (if motor speed reference is used). See the user's manual for more information.

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29. Cable used as a speed reference (if motor speed reference is used). See the user's manual for more information.

30. Cable used as a speed reference (if motor speed reference is used). See the user's manual for more information.

Connection procedure

- To prevent inductive coupling, keep the digital wire pairs isolated at the top of the cabinet.
- Remove the terminal cover.
- Strip the outer insulation of the cable and ground the braided shield (60 degrees under the clamp).
- For double shielded cables, twist also the grounding conductors of each pair in the cable braid and connect the bundle to the DCN grounding terminal.
- Mechanically attach the control cables on the outside of the drive.
- If you are going to use an optional Safe Torque Off function, connect STO conductors for the correct terminals. Use a lightning surge protector for the STO signal.
- Connect your new installation to the optional fieldbus module, when the module is used.

8. Install the fieldbus module (optional)

9. Install the control panel (if any)

10. Start up the drive

See the drive user's manual.

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