

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 protective equipment, safety shoes with antistatic sole, safety glasses, protective gloves and long sleeves, etc.
- When the drive is connected to equipment, it energizes, do not do work on the drive, input cables, motor, control cables or control circuit.
- Do not do work on the drive when a rotating permanent magnet motor is connected to it. A rotating permanent magnet 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 circuit.
 - 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 circuit.
 - 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 0-2 V.
 - 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 (D+ and D-) 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.
 - 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.
 - 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 20 mm (2.4" x 0.8" long).
- Make sure that there is a minimum of 10 mm (3/8") of free space above and below the drive for ventilation.
- When gluing drives on top of each other in a panel or cabinet, make sure that the top of the drive below does 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.

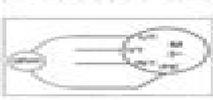


- Start to tighten the screws into the mounting holes.
- Place the drive into the mounting screws.
- Tighten the mounting screws securely.
- To install the drive to a DIN rail
 - Place the top of the drive onto the DIN installation rail, at an angle as shown in figure.
 - Set the drive against the rail.
 - To remove the drive, reverse the above steps in reverse order of the drive.
- Attach the clamping plates
 - Fasten the clamping plate to the bottom of the drive with the provided screws.
 - Fasten the top clamping plate to the clamping plate 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:**

- Make sure that the motor cable is connected to the motor and disconnected from the drive output terminals (U1, U2 and U3).
- 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 drive temperature. Apply the motor and do the measurement again.



5. Select the cables

Input power cable: 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, relay and I/O signals. Do not mix 24 V and 230/250 V signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)

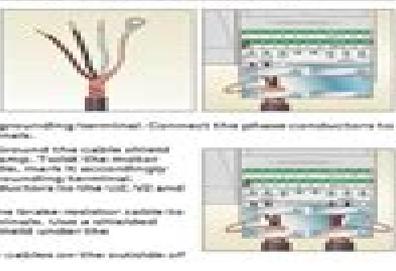


- Make sure grounding of the cable shield required for the motor cable and the motor cable, recommended for the input power cable.
- Use a separate grounding cable if the conductivity of the cable shield is not sufficient or there is no permanent connection grounding conductor in the cable. If there is no permanent connection grounding conductor in the cable, it must be disconnected.
- Use a separate grounding conductor if the cross-section of a single grounding conductor is less than 16 mm² or 16 AWG or 1000/0.075 mm² for a separate shield cable with a separate shield.
- Use a separate grounding cable if the conductivity of the fourth conductor of a shielded cable is not sufficient for the protection grounding.

Connection procedure (shielded cables)

WARNING! Make sure that the drive is compatible with the earthing system of the system. For other systems, see the drive user's manual.

- Strip the input power cable. Ground the cable shield or shield conductor to the grounding clamp. Cut the shield into a bundle, mark it accordingly and connect it to the grounding terminal. Connect the phase conductors to the U1, U2 and U3 terminals.
- Strip the motor cable. Ground the cable shield under the grounding clamp. Take the motor cable shield into a bundle, mark it accordingly and connect it to the grounding terminal. Connect the phase conductors to the M1, M2 and M3 terminals.
- If applicable, connect the brake resistor cable to the D1 and D2 terminals. Use a separate cable and ground the shield under the grounding clamp.
- Mechanically attach the cables on the outside of the drive.

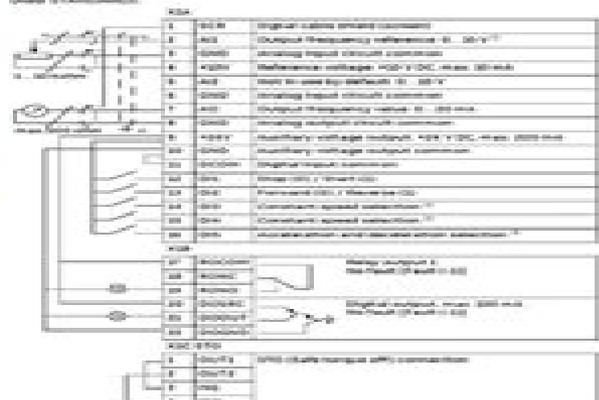


Power line	Lightning protection	PE
U1, U2, U3	U1, U2, U3, PE	PE
D1, D2, D3	D1, D2, D3, PE	U1, U2, U3, PE
M1, M2, M3	M1, M2, M3, PE	U1, U2, U3, PE
Br	Br, PE	U1, U2, U3, PE

7. Connect the control cables

Default I/O connections

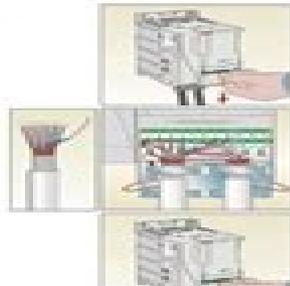
The diagram shows the I/O connections when parameter 2007 has value 0 (user I/O terminals).



- Cables used as a speed reference or motor speed feedback are connected to parameter 2007 (user I/O terminals).
- Cables used as a speed reference or motor speed feedback are connected to parameter 2007 (user I/O terminals).

Connection procedure

- To prevent inductive coupling, keep the digital wire pairs isolated at the top of the cable bundle.
- Remove the terminal cover.
- Strip the outer insulation of the cable and ground the shield (S/SC) shields under the clamp.
- For double shielded cables, cut out also the grounding conductors of each shield in the cable braid and connect the bundle to the S/SC 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 S/TO conductors for the correct terminals. Use a lightning surge protector for S/TO for S/TO.
- Connect your need to install the optional fieldbus module, when the drive is ready for installation.



8. Install the fieldbus module (optional)

9. Install the control panel (if any)

10. Start up the drive

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 switch is in the OFF position. Observe the safety instructions in the drive 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 optional control panel. The built-in control panel is used for manual start-up. The optional control panel is used for manual start-up. Refer to the drive user's manual for the built-in control panel or the optional control panel.

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.

Apply input power

The built-in control panel is used for manual start-up.

The optional control panel is used for manual start-up. The built-in control panel is used for manual start-up. Refer to the drive user's manual for the built-in control panel or the optional control panel.

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ABB ACS355

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**Constantin Carausu,Viorel Cohal,Ioan
Doroftei,Andrzej Wróbel,Dumitru
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