

ACS355 drives Quick installation and start-up guide



Safety instructions

WARNING! Obey these instructions, if you ignore them, injury or death, and 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 the package until you install it. After unpacking, protect the drive from dust, debris and moisture.
- Use the required personal safety equipment, safety shoes with antistatic sole, safety glasses, protective gloves and long sleeves, etc.
- When the drive is connected equipment is energized, do not do work on the drive, motor cable, 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 motor energizes the drive, including the input power 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 for 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.
 - Never touch the installation if it is energized.
 - Use a multimeter with a minimum impedance of 1 MΩ.
 - Make sure that the voltage between the drive input power terminals (U1, V1, W1) and the drive (PE) is close to 0 V.
 - Make sure that the voltage between the drive output terminals (U2, V2, W2) and the ground (PE) is close to 0 V.
 - Make sure that the voltage between the drive DC terminals (B+ and B-) and the ground (PE) is close to 0 V.
- Install temporary grounding as required by the local regulations.
- Ask the person in control of the electrical installation work for a permit to work.

Examine the installation area

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

Make sure that in the installation area:

- There is sufficient space above and below the drive for cooling, and hot air does not recirculate. Refer to the concept manual.
- The ambient conditions are suitable. Refer to the ambient conditions.
- The mounting surface is non-flammable and can hold the weight of the drive. Refer to the user manual for the maximum weight.
- There are no sources of strong magnetic fields, such as high-current single-phase conductors or conductors with near the drive. A strong magnetic field can cause interference in the operation of the drive.

2. Install the drive

You can install the drive with screws or to a DIN rail (Type M1, M2 or M3) or to a 35 mm (1.38 in) DIN rail.

- Make sure that there is a minimum of 10 mm (0.4 in) of free space above and below the drive for cooling air.
- When placing drives on top of each other in a panel or cabinet, make sure that the hot 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 (at the top) is above the cooling air inlet (at the bottom).

To install the drive with screws

- Cut out the mounting terminals from the package and use it to mark the locations for the mounting holes.
- Mark the locations for the mounting screws and install outside plugs or elbows.



- Short the input terminals to the motor 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 rail.
 - Push the drive against the rail.
 - To remove the drive, press the catch on the bottom of the drive with the provided screw.
- Attach the clamping plates
 - Push the clamping plate to the plate.
 - Push the bottom of the drive with the provided screw.
- Connect the DC clamping plate to the clamping plate with the provided screw.

4. Measure the insulation resistance

Measuring the insulation is typically not required in North America. Do not do voltage resistance or insulation resistance tests on the drive. Measure the insulation resistance of an added motor cable. Input power cable: Before you connect the input power cable, measure the insulation resistance of the input power cable. Obey the local regulations.

- Make sure that the motor cable is connected to the motor and disconnected from the drive output terminals (U2, V2 and W2).
- Use a voltage of 500 V or DC to measure the insulation resistance between each phase conductor and the protective earth conductor. The insulation resistance of an added motor cable for more than 300 meters (at 25 °C/77 °F). For the insulation resistance of other motors, refer to the manufacturer's documentation. Measure the insulation resistance of the motor. If you think that there is moisture in the motor, dry the motor and do the measurement again.

5. Select the cables

Input power cable (AC/DC) 380V-0.2 requires the protective earth (ground) conductors. Prefer a symmetrical shielded cable (SFC) cable.

Control cable: Use a double-shielded twisted-pair cable for analog signals. Use a double-shielded cable for digital, relay and I/O signals. For hot mix 24 V and 24 V/0.2 V signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)



- Use a separate grounding cable 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 sheath is not sufficient or there is no continuous continuous grounding conductor in the cable.
- Use a separate grounding cable for the motor cable and the motor cable.
- Use a separate grounding cable if the conductivity of the cable sheath is not sufficient or there is no continuous continuous grounding conductor in the cable.
- Use a separate grounding cable if the conductivity of the fourth conductor is not sufficient for the protective grounding.

Connection procedure (shielded cables)

WARNING! Make sure that the drive is compatible with the shielding system. Refer to the concept manual for other shielding systems.

- Strip the input power cable. Ground the cable sheath (if any) under the grounding clamp. Cut the cable sheath into a bundle, mark it accordingly and connect it to the grounding terminal. Connect the phase conductors to the U1, V1, W1 and PE terminals.
- Strip the motor cable. Ground the cable sheath under the grounding clamp. Take the motor cable sheath into a bundle, mark it accordingly and connect it to the grounding terminal. Connect the phase conductors to the U2, V2 and W2 terminals.
- If applicable, connect the fourth conductor cable to the B+ and B- terminals. Use a shielded cable and ground the shield under the grounding clamp.
- Mechanically attach the cables on the outside of the drive.

Power size	AC, 380 V, 50 Hz, 380 V, 60 Hz, 480 V, 575 V, 690 V, 720 V, 800 V, 1000 V, 1100 V, 1380 V, 1500 V, 1800 V, 2000 V, 2300 V, 2600 V, 3000 V, 3300 V, 3600 V, 4000 V, 4600 V, 5000 V, 5750 V, 6300 V, 7000 V, 7600 V, 8000 V, 9000 V, 10000 V, 11000 V, 12000 V, 13000 V, 14000 V, 15000 V, 16000 V, 17000 V, 18000 V, 19000 V, 20000 V, 22000 V, 24000 V, 26000 V, 28000 V, 30000 V, 33000 V, 36000 V, 40000 V, 46000 V, 50000 V, 57500 V, 63000 V, 70000 V, 76000 V, 80000 V, 90000 V, 100000 V, 110000 V, 120000 V, 130000 V, 140000 V, 150000 V, 160000 V, 170000 V, 180000 V, 190000 V, 200000 V, 220000 V, 240000 V, 260000 V, 280000 V, 300000 V, 330000 V, 360000 V, 400000 V, 460000 V, 500000 V, 575000 V, 630000 V, 700000 V, 760000 V, 800000 V, 900000 V, 1000000 V, 1100000 V, 1200000 V, 1300000 V, 1400000 V, 1500000 V, 1600000 V, 1700000 V, 1800000 V, 1900000 V, 2000000 V, 2200000 V, 2400000 V, 2600000 V, 2800000 V, 3000000 V, 3300000 V, 3600000 V, 4000000 V, 4600000 V, 5000000 V, 5750000 V, 6300000 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