

## 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 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 conductors.
  - Use a multimeter with a minimum impedance of 1 M $\Omega$ .
  - 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 (NEMA open type enclosure).

- 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 20 mm) (2.4 x 2.0 kg).
- 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.

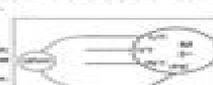


- Start to tighten the screws into the mounting holes.
- Place the drive into the mounting screws.
- Tighten the mounting screws securely.
- To install the drive to a DIN rail
  - Place the top of the drive onto the DIN installation rail, at an angle as shown in figure.
  - Set the drive against the rail.
  - To remove the drive, reverse the above steps in reverse order of the drive.
- Attach the clamping plates
  - Fasten the clamping plate bottom of the drive with the provided screws.
  - Fasten the top 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 cable should be more than 500 M $\Omega$  (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 the motor. 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 I/O and I/O/S/DC 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 mm<sup>2</sup> or 16 AWG or 100,000 sq cm for the motor cable cable shield.
- Use a separate grounding cable if the conductivity of the fourth conductor of the motor cable is insufficient 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 at each end of 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, strip it and connect it to the grounding terminal. Connect the phase conductors to the U1, U2 and U3 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 size  | Lightning protection | PE                |
|-------------|----------------------|-------------------|
| 0.55 - 0.75 | 0.55 - 0.75 kV AC    | 2.0 mm (0.079 in) |
| 0.75 - 1.5  | 0.75 - 1.5 kV AC     | 2.0 mm (0.079 in) |
| 1.5 - 3.0   | 1.5 - 3.0 kV AC      | 2.0 mm (0.079 in) |

### 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).



- Cables used as a speed reference or motor feedback signal are connected to terminals 10 and 11.
- Cables used as a speed feedback signal are connected to terminals 12 and 13.

| Terminal | Signal          | Operation level |
|----------|-----------------|-----------------|
| 10       | Speed reference | 0V              |
| 11       | Speed reference | 5V              |
| 12       | Speed feedback  | 0V              |
| 13       | Speed feedback  | 5V              |

#### Connection procedure

- To prevent inductive coupling, keep the digital wire pairs isolated at the top of the drive.
- Remove the terminal cover.
- Strip the outer insulation of the cable and ground the shield. Place the shield to the PE bus (U1, U2 and U3).
- For double shielded cables, twist also the grounding conductors of each pair to the shield braid and connect the bundle to the PE bus.
- 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 I/O signals.
- Connect your new installation terminal module, when the terminal cover is closed.

#### 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 user's manual. Refer to the user's manual for the correct start-up procedure.

- 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 user's manual for the correct start-up procedure.

**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 user's manual for the correct start-up procedure.

0.0

ABB ACS355

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**K Morrison**



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### **Table of Contents Doc User Manual Abb**

1. Understanding the eBook Doc User Manual Abb
  - The Rise of Digital Reading Doc User Manual Abb
  - Advantages of eBooks Over Traditional Books
2. Identifying Doc User Manual Abb
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Doc User Manual Abb
  - User-Friendly Interface
4. Exploring eBook Recommendations from Doc User Manual Abb
  - Personalized Recommendations
  - Doc User Manual Abb User Reviews and Ratings
  - Doc User Manual Abb and Bestseller Lists

5. Accessing Doc User Manual Abb Free and Paid eBooks
  - Doc User Manual Abb Public Domain eBooks
  - Doc User Manual Abb eBook Subscription Services
  - Doc User Manual Abb Budget-Friendly Options
6. Navigating Doc User Manual Abb eBook Formats
  - ePub, PDF, MOBI, and More
  - Doc User Manual Abb Compatibility with Devices
  - Doc User Manual Abb Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Doc User Manual Abb
  - Highlighting and Note-Taking Doc User Manual Abb
  - Interactive Elements Doc User Manual Abb
8. Staying Engaged with Doc User Manual Abb
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Doc User Manual Abb
9. Balancing eBooks and Physical Books Doc User Manual Abb
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Doc User Manual Abb
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Doc User Manual Abb
  - Setting Reading Goals Doc User Manual Abb
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Doc User Manual Abb
  - Fact-Checking eBook Content of Doc User Manual Abb
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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