

ABB
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, 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 V-12 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 (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.
 - 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 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, 60 x 4, 50 x 7, 50 x 8, 50 x 9, 50 x 10).
- Make sure that there is a minimum of 10 mm (2 in) 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 fan 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 into 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 locations for the mounting holes.
- Mark the location for the mounting screws and install outside plugs or adapters.



3. Do not 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 mounting rail.
- Set the drive against the rail.
- To remove the drive, reverse the above steps.



4. Attach the clamping plates

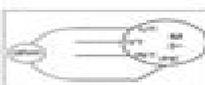
- Fasten the clamping plate to the bottom of the drive with the provided screws.
- Fasten the top clamping plate to the top of the drive with the provided screws.



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. Obey 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 500 V 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 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 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 24 V and 230/250 V signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)

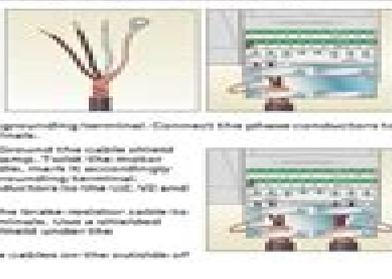


- Make sure grounding of the cable shield required for the motor cable and the motor cable, recommended for the input power cable.
- Use a separate grounding cable if the conductivity of the cable shield is not sufficient or there is no permanent connection grounding conductor in the cable. If there is no permanent connection grounding conductor in the cable, it should be disconnected.
- Use a separate grounding conductor if the cross-section of a single grounding conductor is less than 16 mm² or 0.25 in² or 0.25 in² or the cable shield cable shield is not suitable 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 D4+ and D4- 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	Rating	PE
U1, U2, U3	2.0 A, 2.5 A, 3.0 A, 3.6 A, 4.0 A, 4.5 A, 5.0 A, 5.5 A, 6.0 A, 6.3 A, 6.7 A, 7.0 A, 7.5 A, 8.0 A, 8.5 A, 9.0 A, 9.5 A, 10.0 A, 10.5 A, 11.0 A, 11.5 A, 12.0 A, 12.5 A, 13.0 A, 13.5 A, 14.0 A, 14.5 A, 15.0 A, 15.5 A, 16.0 A, 16.5 A, 17.0 A, 17.5 A, 18.0 A, 18.5 A, 19.0 A, 19.5 A, 20.0 A, 20.5 A, 21.0 A, 21.5 A, 22.0 A, 22.5 A, 23.0 A, 23.5 A, 24.0 A, 24.5 A, 25.0 A, 25.5 A, 26.0 A, 26.5 A, 27.0 A, 27.5 A, 28.0 A, 28.5 A, 29.0 A, 29.5 A, 30.0 A, 30.5 A, 31.0 A, 31.5 A, 32.0 A, 32.5 A, 33.0 A, 33.5 A, 34.0 A, 34.5 A, 35.0 A, 35.5 A, 36.0 A, 36.5 A, 37.0 A, 37.5 A, 38.0 A, 38.5 A, 39.0 A, 39.5 A, 40.0 A, 40.5 A, 41.0 A, 41.5 A, 42.0 A, 42.5 A, 43.0 A, 43.5 A, 44.0 A, 44.5 A, 45.0 A, 45.5 A, 46.0 A, 46.5 A, 47.0 A, 47.5 A, 48.0 A, 48.5 A, 49.0 A, 49.5 A, 50.0 A, 50.5 A, 51.0 A, 51.5 A, 52.0 A, 52.5 A, 53.0 A, 53.5 A, 54.0 A, 54.5 A, 55.0 A, 55.5 A, 56.0 A, 56.5 A, 57.0 A, 57.5 A, 58.0 A, 58.5 A, 59.0 A, 59.5 A, 60.0 A, 60.5 A, 61.0 A, 61.5 A, 62.0 A, 62.5 A, 63.0 A, 63.5 A, 64.0 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Doc User Manual Abb

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Computer Safety, Reliability, and Security Rune Winther, Bjoern Axel Gran, Gustav Dahll, 2005-10-10 This book constitutes the refereed proceedings of the 24th International Conference on Computer Safety Reliability and Security SAFECOMP 2005 held in Fredrikstad Norway in September 2005 The 30 revised full papers were carefully reviewed and selected for inclusion in the book The papers address all aspects of dependability and survivability of critical computerized systems in various branches and infrastructures

Plant Intelligent Automation and Digital Transformation Swapan Basu, 2022-10-28 Plant Intelligent Automation and Digital Transformation Process and Factory Automation is an expansive four volume collection reviewing every major aspect of the intelligent automation and digital transformation of power process and manufacturing plants from the specific control and automation systems pertinent to various power process plants through manufacturing and factory automation systems This volume introduces the foundations of automation control theory networking practices and communication for power process and manufacturing plants considered as integrated digital systems In addition it discusses Distributed control System DCS for Closed loop controls system CLCS and PLC based systems for Open loop control systems OLCS and factory automation This book provides in depth guidance on functional and design details pertinent to each of the control types referenced above along with the installation and commissioning of control systems Introduces the foundations of control systems networking and industrial data communications for power process and manufacturing plant automation Reviews core functions design details and optimized configurations of plant digital control systems Addresses advanced process control for digital control systems inclusive of software implementations Provides guidance for installation commissioning of control systems in working plants

Plant Intelligent Automation and Digital Transformation Volume II Swapan Basu, 2024-08-11 Plant Intelligent Automation and Digital Transformation Volume II Control and Monitoring Hardware and Software is an expansive four volume collection that reviews every major aspect of the intelligent automation and digital transformation of power process and manufacturing plants including specific control and automation systems pertinent to various power process plants using manufacturing and factory automation systems The book reviews the key role of management Information systems MIS HMI and alarm systems in plant automation in systemic digitalization covering hardware and software implementations for embedded microcontrollers FPGA and operator and engineering stations Chapters address plant lifecycle considerations inclusive of plant hazards and risk analysis Finally the book discusses industry 4.0 factory automation as a component of digitalization strategies as well as digital transformation of power plants process plants and manufacturing industries Reviews supervisory control and data acquisitions SCADA systems for real time plant data analysis Provides practitioner perspectives on operational implementation including human machine interface operator workstation and engineering workstations Covers alarm and alarm management systems including lifecycle considerations Fully covers risk analysis and assessment including safety

lifecycle and relevant safety instrumentation

Plant Flow Measurement and Control Handbook Swapan

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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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