ABB MACHINERY DRIVES

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 metal toe caps, safety glasses, protective gloves and long sleeves, etc.
- Before the drive is connected to the energized, do not do work on the drive, motor cable, motor, control cables or control circuits.
- 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 and output power terminals.

Electrical safety precautions

1. Clearly identify the work location and equipment.
2. 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 damaged external control wires from the control circuits.
   - After you disconnect power from the drive, always wait 5 minutes to let the intermediate circuit capacitors discharge before you continue.
3. Protect any other energized parts in the work location against contact.
4. Take special precautions when close to bare conductors.
5. Measure that the installation is de-energized.
   - Use a multimeter with a minimum impedance of 1 Mohm.
   - Make sure that the voltage between the drive input power terminals (U1, V1, W1) and the ground (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 (BRK+ and BRK-) and the ground (PE) is close to 0 V.
6. Install temporary grounding as required by the local regulations.
7. Ask the person in control of the electrical installation work for a permit to work.

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 / UL open type as standard.

Make sure that the installation area:

- has sufficient space above and below the drive for cooling, and that air does not recirculate. Refer to *Free space requirements*.
- is adequately cooled. Refer to *Ambient conditions*.
- has a supporting floor that is non-flammable and can hold the weight of the drive. Refer to *Dimensions and weights*.
- has only non-flammable materials near the drive.
- is free from the sources of strong magnetic fields, such as high-current single-core conductors or contactor coils near the drive. A strong magnetic field could cause interference to the operation of the drive.

2. Install the drive

You can install the drive with screws or to a DIN rail (Top hat, 'n' = 1, 35 × 7.5 mm (1.4 × 0.3 in)).

- Make sure that there is a minimum of 75 mm (3 in) of free space above and below the drive for cooling air.
- When placing drives on top of each other to 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

1. Cut out the mounting template from the package and use it to mark the locations for the mounting holes.
2. Make the holes for the mounting screws and install suitable plugs or anchors.
3. Start to tighten the screws into the mounting holes.
4. Place the drive onto the mounting screws.
5. Tighten the mounting screws securely.

To install the drive to a DIN rail

1. Place the top of the drive onto the DIN installation rail in an angle as shown in figure.
2. Set the drive against the rail.
3. To remove the drive, press the release lever on top of the drive.

3. Attach the clamping plates

1. Fasten the clamping plate to the plate at the bottom of the drive with the provided screws.
2. Frame sizes R0...R2: Fasten the I/O clamping plate to the drive with the provided screw.

4. Measure the insulation resistance

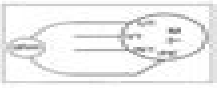
Measuring the insulation is typically not required in North America.

Drive: 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 of the input power cable. Obey the local regulations.

Motor and motor cable:

1. Make sure that the motor cable is connected to the motor and disconnected from the drive output terminals (U2, V2 and W2).
2. Use a voltage of 1000 V DC to measure the insulation resistance between each phase conductor and the protective ground conductor. The insulation resistance of an ABB motor must be more than 100 Mohm (at 25 °C/77 °F). For the insulation resistance of other motors, refer to the manufacturer's documentation. Moisture in the motor decreases the insulation resistance. If you think that there is moisture in the motor, dry it and do the measurement again.



5. Select the cables

Input power cable: IEC/EN 60204-1: It must have protective earth (ground) conductor. Use copper conductors as a minimum. Dimension according to the fuses or other protection. Refer to *Fuses*.

Motor cable: Use a symmetrical shielded cable (VFD cable) for the best EMC performance and for meet the European EMC requirements.

Control cable: Use a double-shielded twisted pair cable for analog signals. Use a shielded cable for digital signals. Use a separate cable or wire pair for each analog signal. Do not mix 24 V and 115/230 V signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)

1. With degrees (grounding of the cable shield) required by the motor cable and drive emission level and external EMC requirements, refer to *Input power cable sizes*.
2. Use a separate grounding cable if the conductivity of the cable shield is not sufficient (greater than the conductivity of the phase conductor for the protective grounding conductor material), or there is no symmetrical grounding conductor in the cable.
3. In straight motor installations, connect phase to U2/T1, neutral to V2/T2 and leave W2 disconnected.
4. Install the grounding conductors if the cross-section of a single grounding conductor is less than 10 mm2 (6 AWG) in CU/16 mm2 (4 AWG) in AL. For example, use the cable shield as addition to the fourth conductor.
5. Use a separate grounding conductor cable if the conductivity of the fourth conductor or shield is not sufficient for the protective grounding.

Connection procedure (shielded cables)

WARNING! Make sure that the drive is compatible with the earthing system. You can connect all drive types to a symmetrically grounded TN-S system. For other systems, see the drive user's manual.

1. Strip the input power cable. Ground the cable shield 360 degrees under the grounding clamp. Twist the cable shield into a bundle, mark it accordingly and connect it to the grounding terminal. Connect the phase conductors to the U1, V1 and W1 terminals.

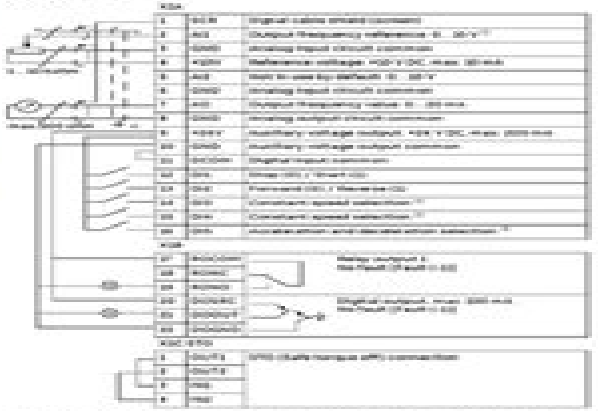
2. Strip the motor cable. Ground the cable shield under the grounding clamp. Twist the cable shield into a bundle, mark it accordingly and connect it to the grounding terminal. Connect the phase conductors to the U2, V2 and W2 terminals.
3. If applicable, connect the brake resistor cable to the BRK+ and BRK- terminals. Use a shielded cable and ground the shield under the grounding clamp.
4. Mechanically attach the cables on the outside of the drive.

Frame size	Tightening torque	
	U1, V1, W1, U2, V2, W2, BRK+, BRK-	PE
R0...R2	0.5 N·m (4.4 lbf·in)	1.2 N·m (10.6 lbf·in)
R3	1.7 N·m (15 lbf·in)	1.2 N·m (10.6 lbf·in)
R4	4.5 N·m (40 lbf·in)	1.2 N·m (10.6 lbf·in)

7. Connect the control cables

Default I/O connections

The diagram shows the I/O connections when parameter 99(99)has value 1 (ABB (Conveying)).



1) DI5 is used as a speed reference if vector mode is selected.
2) See parameter group 10 (Start/stop/dir).

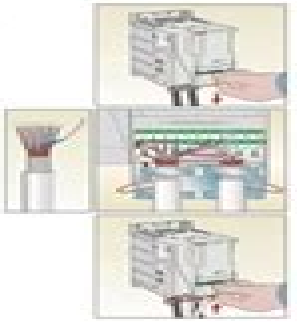
DIP	Bias	Input without bias (-)
1	0	Standard (-10...10 V)
2	0	Standard (-10...10 V)
3	0	Standard (-10...10 V)
4	0	Standard (-10...10 V)

Tightening torque: 0.4 N·m (...) (3.5 lbf·in)

Connection procedure

To prevent inductive coupling, keep the digital signal wires (especially 24 V) away from the relay cables.

1. Remove the terminal cover.
2. Strip the outer insulation of the cable and ground the bare shield 360 degrees under the clamp.
3. Connect the conductors to the correct control terminals. Torque the terminals to 0.4 N·m (3.5 lbf·in).
4. For double-shielded cables, install also the grounding conductors of each pair to the cable together and connect to terminal (SCR terminal 2).
5. Mechanically attach the control cables on the outside of the drive.
6. If you are going to use an optional Safe Torque Off function, connect (STO connection) the circuit. If not, terminate the tightening torque of 0.4 N·m (3.5 lbf·in).
7. If you do not need to install the optional fieldbus module, refit the terminal cover back into place.



8. Install the fieldbus module (optional)

See the drive user's manual.

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 all the cover is on the drive to be closed. Make sure that the motor and the driven equipment are ready for start. Incorrect start-up can cause damage to the motor or drive. Disconnect the motor from either machinery if there is a risk of damage or injury. There is an extensive start-up procedure in the drive user's manual.

Start up without a control panel

1. Apply input power and wait for a moment.
2. 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 basic control panel on the assistant control panel. The instructions below are valid for both control panels, but the displays shown are from the assistant control panel displays, unless the instruction applies to the assistant control panel only.

Before you start, ensure that you have the motor nameplate data at hand.

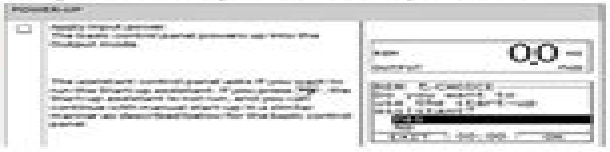


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Table of Contents Abb Turbo Maintenance Manual

1. Understanding the eBook Abb Turbo Maintenance Manual
    - The Rise of Digital Reading Abb Turbo Maintenance Manual
    - Advantages of eBooks Over Traditional Books
2. Identifying Abb Turbo Maintenance Manual
    - 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 Abb Turbo Maintenance Manual
    - User-Friendly Interface
4. Exploring eBook Recommendations from Abb Turbo Maintenance Manual
    - Personalized Recommendations
    - Abb Turbo Maintenance Manual User Reviews and Ratings
    - Abb Turbo Maintenance Manual and Bestseller Lists
5. Accessing Abb Turbo Maintenance Manual Free and Paid eBooks
    - Abb Turbo Maintenance Manual Public Domain eBooks
    - Abb Turbo Maintenance Manual eBook Subscription Services
    - Abb Turbo Maintenance Manual Budget-Friendly Options
6. Navigating Abb Turbo Maintenance Manual eBook Formats

- ePub, PDF, MOBI, and More
- Abb Turbo Maintenance Manual Compatibility with Devices
- Abb Turbo Maintenance Manual Enhanced eBook Features

7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Abb Turbo Maintenance Manual
   - Highlighting and Note-Taking Abb Turbo Maintenance Manual
   - Interactive Elements Abb Turbo Maintenance Manual
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   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Abb Turbo Maintenance Manual
9. Balancing eBooks and Physical Books Abb Turbo Maintenance Manual
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Abb Turbo Maintenance Manual
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Abb Turbo Maintenance Manual
    - Setting Reading Goals Abb Turbo Maintenance Manual
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Abb Turbo Maintenance Manual
    - Fact-Checking eBook Content of Abb Turbo Maintenance Manual
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
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