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 protective equipment, safety shoes with metal toe cap, safety glasses, protective gloves and long sleeves, etc.
- When the drive or connected equipment is 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 its input and power terminals.

Electrical safety precautions

1. Clearly identify the work location and equipment.
2. Disconnect all possible voltage sources. Make sure that re-connection 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 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 an 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 in the installation area:

- There is sufficient space above and below the drive for cooling, and hot air does not recirculate. Refer to *Ambient conditions*.
- 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 *Dimensions and weights*.
- Materials near the drive are non-flammable.
- There are no sources of strong magnetic fields, such as high-current single phase conductors or conductor coils near the drive. A strong magnetic field can 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, W × H × T 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 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 exhaust (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.
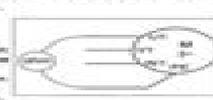2. Make the holes for the mounting screws and install suitable plugs or anchors.

3. Start to tighten the screws into the mounting holes.
4. Place the drive onto the mounting screws.
5. Tighten all 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 clamping plate with the provided screws.

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 earth 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 the motor and do the measurement again.

5. Select the cables

Input power cable: IEC/EN 60204-1 requires two protective earth (ground) conductors. Prefer a symmetrical shielded cable (VFD cable).

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

Control cable: Use a double shielded twisted pair cable for analog signals. Use a double shielded or single shielded cable for digital, relay and I/O signals. Do not mix 24 V and 115/230 V signals in the same cable.

6. Connect the power cables

Connection diagram (shielded cables)

1. 360 degrees grounding of the cable shield. Required for the motor cable and make-sensitive installations.
2. Use a separate grounding cable if the conductivity of the cable shield is not sufficient.
3. Use a separate grounding cable if the conductivity of the cable shield is not sufficient.
4. In multi-motor installations, connect phase conductors.
5. Cable grounding conductor if the cross-section of a single grounding conductor.
6. Use a separate grounding cable.

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 of the cable shield and the cable shield into a bundle, mark it accordingly and connect it to the grounding terminal. Connect other grounding conductors (PE) 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 motor 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 torques	
	U1, V1, W1, U2, V2, W2, BRK+, BRK-	PE
R0...R2	0.8 N·m (7 lbf·in)	1.2 N·m (11 lbf·in)
R3	1.7 N·m (15 lbf·in)	1.2 N·m (11 lbf·in)
R4	2.5 N·m (22 lbf·in)	1.2 N·m (11 lbf·in)

7. Connect the control cables

Default I/O connections

The diagram shows the I/O connections when parameter 9902 has value 1 (ABB STANDARD).

X1A			
1	SCR	Signal cable shield (screen)	
2	AI1	Output frequency reference 0...10 V	
3	GND	Analog input circuit common	
4	+10V	Reference voltage +10 V DC, max. 10 mA	
5	AI2	Not in use by default 0...10 V	
6	GND	Analog input circuit common	
7	AO	Output frequency value 0...20 mA	
8	GND	Analog output circuit common	
9	+24V	Auxiliary voltage output +24 V DC, max. 200 mA	
10	GND	Auxiliary voltage output common	
11	DCOM	Digital input common	
12	DI1	Stop (0) / Start (1)	
13	DI2	Forward (0) / Reverse (1)	
14	DI3	Constant speed selection	
15	DI4	Constant speed selection	
16	DI5	Acceleration and deceleration selection	
X1B			
17	ROCOM	Relay output 1	
18	RONC	No fault (Fault >0)	
19	RONO		
20	DOSRC	Digital output, max. 100 mA	
21	DOOUT	No fault (Fault >0)	
22	DOGND		
X1C: STO			
37	OUT1	STO (Safe torque off) connection	
38	OUT2		
39	IN1		
40	IN2		

Connection procedure

To prevent inductive coupling, keep the digital wire pairs isolated of the relay up to the terminals.

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. Tighten the terminals to 0.4 N·m (0.3 lbf·in).
4. For double-shielded cables, twist also the grounding conductors of each pair into a bundle together and connect the bundle to the SCR terminal (terminal 1).
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 conductors to the correct terminals. Use a tightening torque of 0.4 N·m (0.3 lbf·in).
7. Unless you need to install the optional fieldbus module, slide 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 the cover (if the drive) is in place. Make sure that the motor does not cause danger when it starts. Disconnect the motor from the driven machinery, if there is a risk of damage or injury. There is an extensive installation checklist 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 or the assistant control panel. The instructions below are the same for both control panels, but the displays shown are for the basic 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.

POWER-UP

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