

AC5500

Quick Start Guide

AC5500-01 Drives (0.75...160 kW),
IP21 / UL Type 1 Enclosure



Overview

The installation of the AC5500 adjustable speed AC drive follows the outline below:



Application

This guide provides a quick reference for installing AC5500-01 drives having a standard enclosure.

Note: This guide does not provide detailed installation, safety or operational instructions. See AC5500 User's Manual for complete information.

Prepare for installation



WARNING! The AC5500 should **ONLY** be installed by a qualified electrician.

Unpack the drive

Note: Lift the AC5500 by its cheeks and not by its cover.

1. Unpack the drive.
2. Check for any damage.
3. Check the contents against the order / shipping label.

Check

- Motor compatibility - Motor type, nominal current, frequency and voltage range must match drive specifications.
- Suitable environment - Drive requires heated indoor controlled environment that is suitable for the selected enclosure.
- Wiring - Follow local codes for wiring, circuit protection and EMC requirements.

Refer to User's Manual and confirm that all preparations are complete.

Drive identification



Use the following chart to interpret the type code found on the drive label.



Collect motor data

Collect the following data from the motor nameplate for later use in the AC5500 startup:

- Voltage _____
- Nominal motor current _____
- Nominal frequency _____
- Nominal speed _____
- Nominal power _____

Tools required

Screwdrivers, wire stripper, tape measure, mounting screws or bolts and drill.

Prepare the mounting location

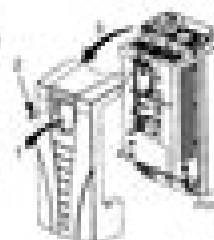
The drive requires a smooth, vertical, solid surface, free from heat and moisture, with free space for air flow - 200 mm (8 in) above and below.

1. Mark the mounting points using the template.
2. Drill the mounting holes.



Remove the front cover

1. Remove the control panel, if attached.
2. Loosen the captive screws at the top.
3. Pull near the top to remove the cover.



Mount the drive

1. Position the AC5500 and use screws or bolts to securely tighten all four corners.



Note: Lift the AC5500 by its metal cheeks.

2. Non-English speaking locations: Attach a warning sticker in the appropriate language over the existing warning on the top of the module.

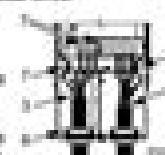
Install the wiring

Wiring power

1. Open the appropriate knockouts in the gland box.
2. Install the cable clamps for the power/motor cables.
3. On the input power cable, strip the sheathing back far enough to route individual wires.



4. On the motor cable, strip the sheathing back far enough to expose the copper wire shield so that the shield can be twisted into a bundle. Keep the bundle not longer than five times its width to minimize noise radiation. - 360° grounding under the clamp is recommended for the motor cable to minimize noise radiation. In this case, remove the sheathing at the cable clamp.



5. Route both cables through the clamps.
6. Connect the bundle created from the motor cable shield to the GND terminal.
7. Strip and connect the power/motor wires and the power ground wire to the drive terminals using the torque given in the table below. See Power connections below in, for more detail, see User's Manual.

Power Tightening torque	
Size	Size
16-20	4
24	5
32	6
40	7
50	8
63	10



8. Install conduit/gland box and tighten the cable clamps.



WARNING! To disconnect the internal IEC filter, remove the screws marked with "x", or replace the screws marked with "x" with the provided polyamide screws, depending on the frame size.

System type	BT - BT	BT	BT - BT
IP rating	IP21	IP21	IP21
Color protection system	•	•	•

9. Install the cable clamps for the control cables. (Power/motor cables and clamps not shown in the figure.)



ABB

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WJ Hussar



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Food Engineering ,2004-07 *ABB Industrial Manual* ABB Asea Brown Boveri Ltd,Asea Brown Boveri,Gunnar
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