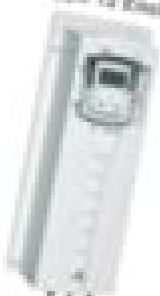


AC5000

Quick Start Guide

AC5000-01 Drives (0.75...100 kW)
IP54 / UL Type 12 Enclosure



Overview

The installation of the AC5000 adjustable speed AC drive follows the outline below:

1. PREPARE the location
2. PREPARE mounting location
3. REMOVE the old drive
4. MOUNT the drive
5. INSTALL wiring
6. CHECK parameters
7. REWIND the cable
8. START-UP

Application

This guide provides a quick reference for installation, mounting, AC5000-01 drive cable connections, and IP54 / UL Type 12 enclosures.

Note: This guide does not provide detailed installation, safety or operational instructions. See AC5000 user's manual for complete information.

Prepare for installation

WARNING! The AC5000 should ONLY be installed in a suitable enclosure.

Unpack the drive

Note: Lift the AC5000 by its chassis and not by its cover.

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

Check

- Motor compatibility - Motor type, nominal current, frequency and voltage range must match drive specifications
- Suitable environment - Drive requires installed in a suitable environment that is suitable for the selected enclosure
- Wiring - Follow local codes for wiring, correct 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 label code found on the drive label.



AC, Standard Drive - 01 series
Construction (single specified)
01 = 0.75...100 kW (UL Type 12)
01 = 0.75...100 kW (UL Type 12)
Output current rating
See chapter 4 in user's manual for details

Wiring rating
01 = 0.75...100 kW (UL Type 12)
01 = 0.75...100 kW (UL Type 12)
01 = 0.75...100 kW (UL Type 12)

Options
01 = 0.75...100 kW (UL Type 12)
01 = 0.75...100 kW (UL Type 12)
01 = 0.75...100 kW (UL Type 12)
01 = 0.75...100 kW (UL Type 12)
01 = 0.75...100 kW (UL Type 12)
01 = 0.75...100 kW (UL Type 12)

Connect motor data

Collect the following data from the motor nameplate for later use in the AC5000 starter.

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

Tools required

Screwdrivers, wire pliers, tape measure, mounting screws as listed and drill.

Prepare the mounting location

The drive requires a smooth, vertical, flat surface, free from heat and moisture, with flat space for at least 100 mm (4 in) above and below.

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



Remove the front cover

1. If fixed in place, remove screws (2) holding front in place
2. If fixed in place, slide front up and off the cover
3. Loosen the captive screws around the edge of the cover
4. Remove the cover



Mount the drive

The holes provided for access to the drive mounting slots require rubber plugs.

1. As required for access, remove the rubber plugs. Push plugs out from the back of the drive
2. At 0.75 and 100 kW, apply the steel cable clamp and tighten it from the front of the drive's top mounting holes (check on size of steel cable)



3. Position the AC5000 and securely tighten it at four corners
- Note:** Lift the AC5000 by its metal chassis
4. Reinstall the rubber plugs
5. Now English speaking locations: Attach a warning sticker in the appropriate language near the warning warning on the top of the motor

Install the wiring

General wiring

1. Cut the rubber cable seals as required for the power, motor and control cables. The control part of the seal must be stamped when marked in the back through cable holes



Wiring order

1. On the input power cable, strip the grounding braid for enough to make individual wires
2. On the motor cable, strip the grounding braid for enough to make the cables wire shield into a bundle. Along the bundle, remove motor insulation - 200° grounding cable to eliminate noise radiation in this cable. Remove the sheathing of the cable shield.
3. Route both cables through the clamps and tighten the clamps
4. Connect the bundle created from the motor cable shield to the GND terminal
5. Strip and connect the power/motor wires and the power ground wire to the drive terminals using the template given in the table below. See user's manual for more detail.



Terminal	Wiring	Termination
01	0.75...100 kW (UL Type 12)	0.75...100 kW (UL Type 12)
01	0.75...100 kW (UL Type 12)	0.75...100 kW (UL Type 12)
01	0.75...100 kW (UL Type 12)	0.75...100 kW (UL Type 12)
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01	0.75...100 kW (UL Type 12)	0.75...100 kW (UL Type 12)
01	0.75...100 kW (UL Type 12)	0.75...100 kW (UL Type 12)



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United States. War Department



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Loss Manipulation Using Deadbeat-Direct Torque & Flux Control for Induction Machines James M. Burton, 2009

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Wan, 2011-06-21 This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics EEIC 2011 held on June 20 22 2011 which is jointly organized by Nanchang University Springer and IEEE IAS Nanchang Chapter The objective of EEIC 2011 Volume 3 is to provide a major interdisciplinary forum for the presentation of new approaches from Electrical Power Systems and Computers to foster integration of the latest developments in scientific research 133 related topic papers were selected into this volume All the papers were reviewed by 2 program committee members and selected by the volume editor Prof Xiaofeng Wan We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electrical Power Systems and Computers *Machine Design* ,1993 **100 BEST GENERATIVE AI TOOLS** Prabhu TL, In the era of groundbreaking technological advancements the book 100 Best Generative AI Tools is your passport to an exhilarating expedition through the realms of creativity imagination and innovation This captivating guide unveils a curated selection of the most remarkable and transformative generative AI tools that are reshaping the landscape of human ingenuity across a multitude of industries Unlocking the Power of Generative AI Imagine a world where machines possess the remarkable ability to generate art music literature and even entire virtual realities In 100 Best Generative AI Tools you ll venture into this awe inspiring realm where algorithms fuse with creativity to produce captivating and unprecedented results Whether you re an artist a musician a writer or an innovator this book empowers you to harness the potential of generative AI to amplify your creative endeavors A Treasury of Creative Possibilities This book serves as a

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Manual giving French and English labels to concepts objects and activities within the general field of aeronautics in order to standardize expressions and ensure the perception of an identical message by individuals as well as to prevent confusion and negative impacts on aviation safety Definitions are included to clarify some concepts Terms are listed in alphabetical order with origins or explanations where needed Symbols are listed alphabetically according to their names **Conference Proceedings** IEEE Power Engineering Society. Summer Meeting, 2002 Advanced Technologies, Systems, and Applications VII Naida Ademović, Edin Mujčić, Medžida Mulić, Jasmin Kevrić, Zlatan Akšamija, 2022-10-15 This book presents a collection of articles on the advanced and interdisciplinary application of innovative technologies Scientific investigations and results of the conference 13th Days of Bosnian Herzegovinian American Academy of Art and Sciences held in Sarajevo Bosnia and Herzegovina June 23 26 2022 are presented in this book The up to date advances in various fields of engineering have been presented through numerous papers spanning the disciplines of civil engineering mechanical engineering advanced electrical power systems computer modeling and simulations for engineering applications computer science and artificial intelligence geodesy and geoinformation data science and geographic information systems and information and communication technologies The editors would like to extend special gratitude to all the chairs of the planned symposia of the 13th Days of BHAAAS for their dedicated work in the production of this book **Plant & Control Engineering**, 2002
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