

Allen-Bradley 1305-BA06A

Allen-Bradley 1305-BA06A Adjustable Frequency AC Drive User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Allen-Bradley 1305-BA06A Adjustable Frequency AC Drive, Series C. Please read this manual thoroughly before attempting to install or operate the drive. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Only qualified personnel should install, operate, or service this equipment.

- Always disconnect and lock out power before working on the drive or connected equipment.
- Ensure proper grounding of the drive and motor.
- Do not touch electrical components when power is applied.
- Verify all wiring connections are secure and correct before applying power.
- Observe all local and national electrical codes.

3. PRODUCT OVERVIEW

The Allen-Bradley 1305-BA06A is an adjustable frequency AC drive designed for controlling the speed and torque of AC induction motors. It features a robust design suitable for industrial applications and includes a user-friendly interface with a touchscreen display for parameter adjustment and monitoring.



Image 3.1: Front view of the Allen-Bradley 1305-BA06A AC Drive alongside its user manual.

The drive is engineered for reliable performance, offering precise motor control capabilities. Its compact form factor allows for integration into various control panels and systems.



Image 3.2: Side view of the Allen-Bradley 1305-BA06A AC Drive, showing its ventilation design.

4. SETUP AND INSTALLATION

4.1 Mounting

Mount the drive vertically on a flat, stable surface, ensuring adequate clearance for ventilation. Avoid mounting in direct sunlight or near heat sources. Refer to the drive's dimensions for proper enclosure sizing.

4.2 Wiring

All wiring must comply with local and national electrical codes. Use appropriate wire gauges for power and control circuits. Ensure all connections are tight to prevent loose contacts and potential hazards.

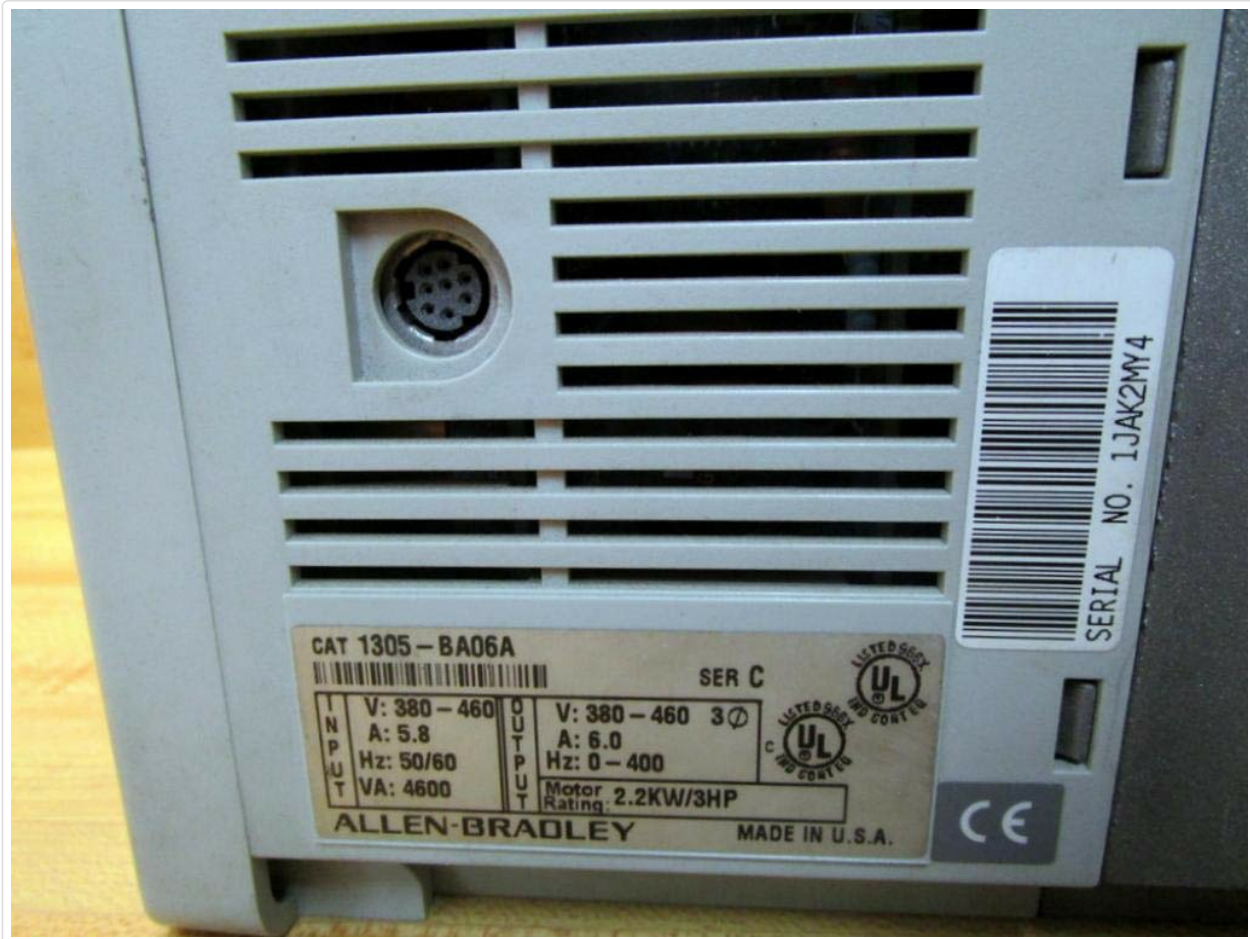


Image 4.1: Rear view of the drive, displaying the product label with input/output specifications and serial number.

4.2.1 Power Connections

- Connect the incoming AC power supply to the designated input terminals.
- Connect the motor leads to the output terminals (U, V, W).
- Ensure proper grounding of the drive chassis and motor frame.

4.2.2 Control Connections

Connect control signals (e.g., start/stop, speed reference) to the appropriate control terminals. The drive features a 9-pin female connection for control interface. Refer to the detailed wiring diagrams in the complete product documentation for specific terminal assignments.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To power on, ensure all connections are secure, then apply main power to the drive. The display will illuminate.
- To power off, remove main power from the drive. Wait for the display to turn off completely before performing any service.

5.2 Basic Control Panel Operation

The drive features a control panel with a touchscreen display and dedicated buttons for basic functions:

- **ESC:** Escape/Cancel button.
- **SEL:** Select/Enter button.
- **▲ / ▼:** Up/Down arrow buttons for navigation and value adjustment.
- **JOG:** Jog function button.
- **START:** Initiates motor operation.
- **STOP:** Halts motor operation.

Use the touchscreen or arrow buttons to navigate menus and adjust parameters. Refer to the drive's programming manual for detailed parameter settings and advanced functions.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of the drive. Always disconnect power before performing any maintenance.

6.1 Routine Inspection

- Inspect the drive for any signs of physical damage, loose connections, or discoloration.
- Check for dust accumulation on cooling fins and internal components.

6.2 Cleaning

Use compressed air to remove dust from the cooling fins and internal components. Do not use liquid cleaners directly on electrical parts. Ensure the drive is completely dry before reapplying power.



Image 6.1: Bottom view of the drive, highlighting the cooling fins for heat dissipation.

6.3 Cooling System

Ensure that the drive's cooling system, including fans and heat sinks, remains unobstructed and clean. Proper airflow is critical for preventing overheating and maintaining performance.

7. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed troubleshooting, refer to the complete product manual or contact technical support.

- **No Power/Display Off:** Check input power connections, fuses, and circuit breakers.
- **Motor Not Running:** Verify start command, speed reference, and motor connections. Check for active fault codes on the display.
- **Overcurrent/Overvoltage Fault:** Inspect motor and load for issues. Check input voltage stability.
- **Overheat Fault:** Ensure proper ventilation and clean cooling fins. Check ambient temperature.

If an error code appears on the display, record the code and consult the drive's programming manual for specific diagnostic steps.

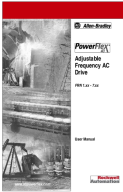
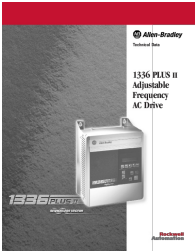
8. SPECIFICATIONS

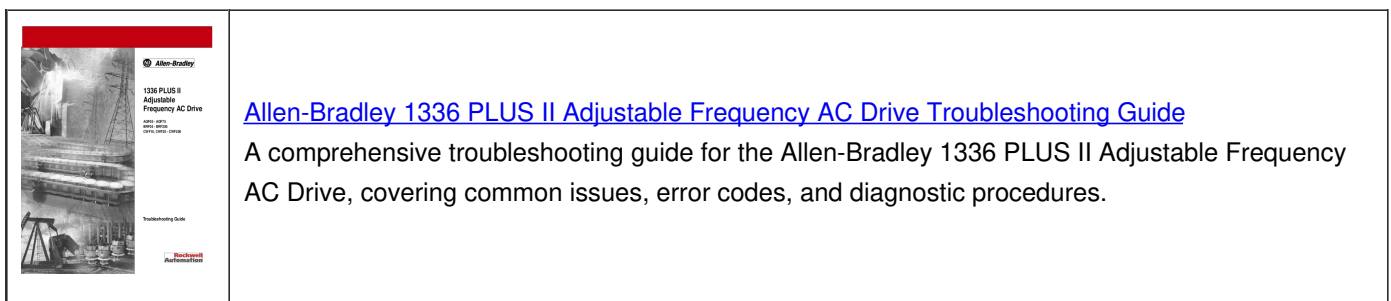
Parameter	Value
Model Number	1305-BA06A
Series	C
Input Voltage	380-460V AC
Input Current	5.8 A
Input Frequency	50/60 Hz
Input VA	4600 VA
Output Voltage	380-460V AC
Output Current	6.0 A
Output Frequency Range	0-400 Hz
Motor Rating	2.2 KW / 3 HP
Control Connection	9-Pin Female
Product Dimensions	7 x 7 x 7 inches
Item Weight	8.9 Pounds (4.04 kg)
Display Type	Touchscreen
Manufacturer	Allen Bradley

9. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the original purchase documentation or contact your authorized Allen-Bradley distributor. Technical support can be obtained through Allen-Bradley's official channels or your product supplier.

Related Documents - 1305-BA06A

	PowerFlex 40 Adjustable Frequency AC Drive User Manual Allen-Bradley Comprehensive user manual for the Allen-Bradley PowerFlex 40 Adjustable Frequency AC Drive (FRN 1.xx - 7.xx). Covers installation, setup, programming, troubleshooting, and specifications.
	Allen-Bradley 1336 PLUS II Adjustable Frequency AC Drive Technical Data Explore the technical specifications, features, and installation details of the Allen-Bradley 1336 PLUS II Adjustable Frequency AC Drive. This document provides comprehensive information for industrial automation applications, including sensorless vector control, flexible I/O, and various configuration options.
	VFD Motor Guide: Variable Frequency Drives for AC Motors Precision Electric, Inc. Comprehensive guide to Variable Frequency Drives (VFDs) for AC motors, covering operation, benefits like energy savings and process control, technical considerations, applications, and manufacturer selection tips from Precision Electric, Inc.
	What Are Variable Frequency Drives (VFDs)? Explore the definition, function, benefits, and applications of Variable Frequency Drives (VFDs) in industrial and commercial settings. Learn how VFDs optimize motor control, enhance energy efficiency, and improve process performance.
	Inicio Rápido - Variador de Velocidad de CA PowerFlex 4 Guía de inicio rápido para la instalación, puesta en marcha y programación del variador de velocidad de CA PowerFlex 4 de Allen-Bradley. Incluye especificaciones técnicas, consideraciones de montaje, cableado y parámetros.



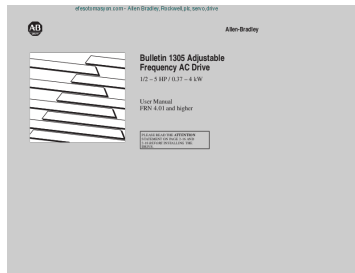
Allen-Bradley 1336 PLUS II Adjustable Frequency AC Drive Troubleshooting Guide

A comprehensive troubleshooting guide for the Allen-Bradley 1336 PLUS II Adjustable Frequency AC Drive, covering common issues, error codes, and diagnostic procedures.

Documents - Allen-Bradley – 1305-BA06A

[pdf] User Manual Guide

1305 5 1 February 1996 AC Drive 2 5hp 0 37 4kW User Manual Rockwell Automation Bulletin Adjustable Frequency This manual is intended to guide qualified personnel in the installation and operation of this product Because variety uses for equipment because differences between solid state electromechanical user those responsible um001 en p efesotomasyon Allen Bradley rockwell efesotomasyon.com - Allen Bradley, Rockwell, plc, servo, drive Allen-Bradley Bulletin 1305 Adjustable Fr ... 1305-AA02A 1305-AA03A 1305-AA04A 1305-AA08A 1305-AA12A 1305-BA01A 1305-BA02A 1305-BA03A 1305-BA04A **1305-BA06A** 1305-BA09A Motor Rating 3 O Input 1 O Input HP kW Output Current A HP kW Outp... lang:en score:35 filesize: 816.17 K page_count: 177 document date: 2011-11-12



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1305 BR001A EN P August 2000 Bulletin AC Drives Simple Flexible and Performance Rich Rockwell Automation Chudov 2 The drive is a variable speed designed to control the of three phase induction motors in variety demanding applications where flexibility performance ease use M See 1204 Motor Terminator Brochure publication 1 0 for proper selection H Installation guidelines called out Appendix D User s Allen Bradley Bul br001 en p manuals chudov literature rockwellautomation idc groups documents br lgor index metalworking electrical ||| Bulletin 1305 AC Drives Simple, Flexible, and PerformanceRich Simple, Flexible and Performance-Ric ... 1305-BA02A 1 0.75 2.3A 1305-BA03A 2 1.5 4.0A 1305-BA04A 3 2.2 6.0A **1305-BA06A** 5 4.0 9.0A 1305-BA09A 1305 drives include English text display. A second langu... lang:en score:28 filesize: 2.74 M page_count: 24 document date: 2000-09-06



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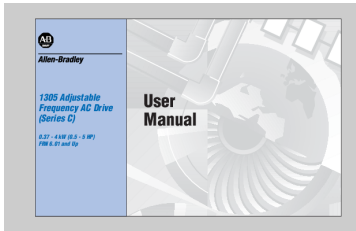
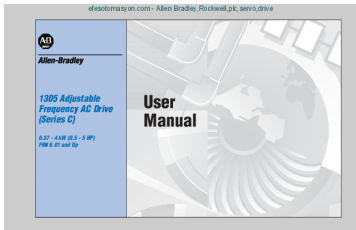
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A comprehensive catalog of industrial electrical components from IDEAL Utility Services, featuring products from Allen-Bradley, Siemens, Honeywell, and other leading manufacturers. Includes item numbers, descriptions, pricing, and model details for switches, sensors, relays, circuit breakers, and more.

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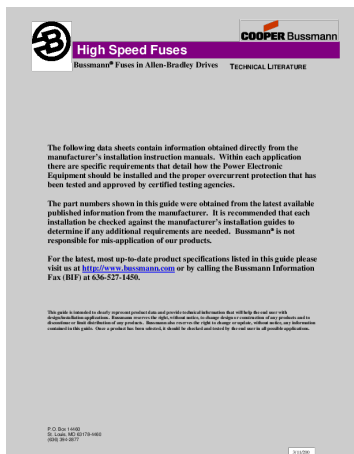
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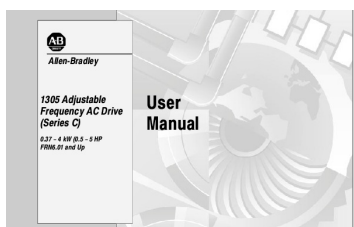


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A comprehensive list of repairable industrial components, primarily focusing on ABB products including inverters, servo drives, control units, and PCBs, alongside items from other manufacturers like Allen Bradley, Alfa Laval, and AEG.

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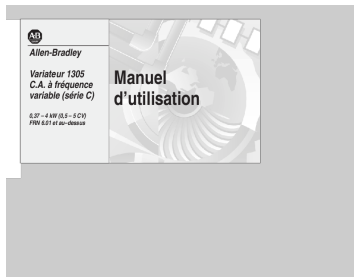
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