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- › JOCCOS /
- › JOCCOS Hybrid AC Servo Driver AASD20A Instruction Manual

## JOCCOS AASD20A

# JOCCOS Hybrid AC Servo Driver AASD20A Instruction Manual

Model: AASD20A

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your JOCCOS Hybrid AC Servo Driver, model AASD20A. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper usage and to prevent damage to the device or injury to personnel. The AASD series offers enhanced performance and stability compared to the A1 series.

For an English manual download, please refer to the following external resource:[External Manual Link](#)

## 2. SAFETY INFORMATION

### **WARNING: High Voltage. Risk of Electric Shock.**

- Ensure all power is disconnected before installation, wiring, or maintenance.
- Only qualified personnel should perform installation and wiring.
- Do not operate the driver with damaged cables or connectors.
- Ensure proper grounding to prevent electrical hazards.
- Avoid touching internal components while the device is powered.

## 3. PRODUCT OVERVIEW

The JOCCOS Hybrid AC Servo Driver is designed for precise control of servo motors, offering stable performance and fast response. Key features include an advanced heat dissipation design and, for models 20A and above, an integrated cooling fan.



Figure 1: Various JOCCOS Hybrid AC Servo Driver models. The image displays three servo drivers, illustrating their compact design and external features, including digital displays and connection ports.

### 3.1 Communication Interfaces and Connections

The servo driver features several interfaces for control and power:

- **PC Signal Input:** For connecting to a computer for configuration and monitoring.
- **Encoder Signal Input:** For receiving feedback from the servo motor's encoder.
- **Control Circuit Power Supply:** Provides power to the internal control logic.
- **Main Circuit Power Supply:** Supplies power to the motor drive section.
- **External Braking Resistor Interface:** For connecting an optional external braking resistor.
- **Motor Power Line:** Connects to the servo motor's power input.
- **Ground Terminal:** For safety grounding.



Figure 2: Front panel and connection terminals. This image highlights the digital display, control buttons, and the array of input/output terminals for power, control signals, and motor connections.



Figure 3: Cooling system of the AASD series driver. This view emphasizes the robust heatsink and the cooling fan, which is crucial for maintaining optimal operating temperatures in higher current models.

## 4. SETUP AND INSTALLATION

Follow these general guidelines for installing your servo driver:

1. **Mounting:** Securely mount the servo driver in a well-ventilated area, ensuring adequate space for heat dissipation.
2. **Wiring:** Connect the main circuit power supply, control circuit power supply, motor power lines, encoder feedback, and PC communication cables according to the wiring diagram provided in the full technical documentation. Pay close attention to polarity and proper terminal connections.
3. **Grounding:** Connect the ground terminal to a reliable earth ground.
4. **External Resistor (Optional):** If required for your application, connect an external braking resistor to the designated interface.
5. **Initial Power-Up:** After all connections are verified, apply power. Observe the digital display for any error

codes or abnormal behavior.



Figure 4: Top view of servo drivers. This image provides a perspective on the arrangement of components, including the cooling fan and the various connection ports on the top surface of the units.

## 5. OPERATING INSTRUCTIONS

The servo driver features a control panel with several buttons for configuration and monitoring:

- **MODE Button:**
  - Used for mode switching.
  - Allows direct navigation to the upper-level menu.
- **UP (▲) Button:**
  - Increases numerical values.
  - Long press provides a repeating effect for faster adjustments.
- **DOWN (▼) Button:**
  - Decreases numerical values.
  - Long press provides a repeating effect for faster adjustments.
- **SHIFT Button:**

- Used for cursor shifting within parameters.
- **SET (OK) Button:**
  - Confirms settings.
  - Ends parameter setting mode.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your servo driver:

- **Cleaning:** Periodically clean the exterior of the driver, especially the cooling fins and fan (if present), to prevent dust buildup that can impede heat dissipation. Use a soft, dry cloth.
- **Connections:** Routinely check all electrical connections for tightness and signs of corrosion. Loose connections can lead to intermittent operation or damage.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges. Avoid exposure to excessive dust, moisture, or corrosive gases.
- **Fan Inspection:** For models with cooling fans, inspect the fan for proper operation and clear any obstructions.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter:

### 7.1 Alarm Indication

**Note: If all 5 decimal points of the display screen are flashing, it indicates that an alarm has been generated. The alarm must be cleared before the driver can resume normal operation.**

Refer to the full technical documentation for a comprehensive list of alarm codes and their corresponding troubleshooting steps.

### 7.2 General Troubleshooting Tips

- **No Power:** Check power supply connections, fuses, and circuit breakers.
- **Motor Not Moving:** Verify motor wiring, encoder connections, and control signal inputs. Check for alarm conditions.
- **Overheating:** Ensure proper ventilation, clean cooling fins, and check fan operation. Reduce load if necessary.
- **Erratic Behavior:** Check for electrical noise, proper grounding, and secure signal connections.

## 8. SPECIFICATIONS

The following table outlines the specifications for various JOCCOS Hybrid AC Servo Driver models:

Model	Current (A)	Voltage (V)	Application For Servo Motor (KW)
AASD-15A	15A	220V	0.4-0.75KW
AASD-20A	20A	220V	1KW
AASD-30A	30A	220V	1.2-2.6KW
AASD-50A	50A	220V	3.5KW
A1-SVD15	15A	220V	0.4-0.75KW
A1-SVD20	20A	220V	1KW
A1-SVD30	30A	220V	1.2-2.6KW

## 8.1 Additional Product Specifications

- **Brand:** JOCCOS
- **Model Name:** JOCCOS
- **Voltage:** 110 Volts (Note: The table above specifies 220V for operation, please verify compatibility with your power supply.)
- **Item Weight:** 50 Grams (1.76 ounces)
- **Wattage:** 500 watts
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact your vendor or refer to the official JOCCOS website. Keep your purchase receipt as proof of purchase for any warranty claims.