

SV630NS5R5I-FS

SV630NS5R5I-FS Servo Drive User Manual

Model: SV630NS5R5I-FS | Brand: Generic

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1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of the Generic SV630NS5R5I-FS Servo Drive. The SV630NS5R5I-FS is designed for precise motion control in various industrial automation applications, including small robotic arms, automated conveyor lines, and material transfer mechanisms in food processing machinery. Proper installation, configuration, and maintenance are crucial for optimal performance and longevity of the device.

2. SAFETY INFORMATION

Read all safety instructions carefully before installation, operation, or maintenance. Failure to comply with these instructions may result in personal injury or equipment damage.

- Qualified Personnel:** Installation and maintenance should only be performed by qualified and trained personnel.
- Power Disconnection:** Always disconnect power before performing any installation, wiring, or maintenance tasks. Verify that all power sources are off and locked out.
- Grounding:** Ensure the servo drive is properly grounded to prevent electrical shock.
- Environmental Conditions:** Operate the device within specified environmental conditions (temperature, humidity, vibration) to prevent malfunction.
- Emergency Stop:** Implement and test emergency stop circuits as required by application safety standards.
- Hot Surfaces:** The servo drive may become hot during operation. Avoid direct contact with hot surfaces.

3. PRODUCT OVERVIEW

The SV630NS5R5I-FS Servo Drive is a compact and robust unit designed for precise motor control. It features various input/output ports for connectivity and a durable housing for industrial environments.



Figure 3.1: Top-down view of the SV630NS5R5I-FS Servo Drive, showing the main housing and ventilation slots.



Figure 3.2: Side view of the SV630NS5R5I-FS Servo Drive, highlighting the cooling fins for heat dissipation.



Figure 3.3: Front-side view of the SV630NS5R5I-FS Servo Drive, illustrating the communication and power connection ports.

3.1 Key Components

- **Power Input Terminals:** For connecting the main power supply.
- **Motor Output Terminals:** For connecting to the servo motor.
- **Encoder Feedback Port:** For precise motor position and speed feedback.
- **Communication Ports:** (e.g., RS485, Ethernet) for control system integration.
- **I/O Terminals:** Digital and analog inputs/outputs for external control and status.
- **Cooling Fins/Ventilation:** Designed for efficient heat dissipation.

4. SETUP

4.1 Mounting

Mount the SV630NS5R5I-FS Servo Drive vertically on a stable surface within an electrical enclosure, ensuring adequate clearance for ventilation. Use appropriate mounting hardware to secure the unit firmly.



Figure 4.1: Bottom view of the SV630NS5R5I-FS Servo Drive, indicating mounting points for secure installation.

4.2 Wiring

1. **Power Wiring:** Connect the main power supply to the designated power input terminals. Ensure correct voltage and phase as per specifications.
2. **Motor Wiring:** Connect the servo motor's power cables to the motor output terminals (U, V, W).
3. **Encoder Wiring:** Connect the motor's encoder feedback cable to the encoder feedback port on the drive.
4. **Control Wiring:** Connect communication cables (e.g., Ethernet, RS485) and I/O signals to the respective ports for integration with the control system (PLC, industrial PC).
5. **Grounding:** Connect the protective earth (PE) terminal of the drive to the system's ground.

4.3 Initial Power-Up

- Before applying power, double-check all wiring connections for correctness and security.
- Apply power to the servo drive. Observe the status indicators for any error codes.
- Refer to the software manual for initial parameter configuration and motor tuning.

5. OPERATING INSTRUCTIONS

Once properly installed and configured, the SV630NS5R5I-FS Servo Drive operates under the control of an external master controller (e.g., PLC, motion controller).

- **Power On:** Ensure the drive is powered on and initialized without errors.
- **Enable Drive:** Send an enable signal from the master controller to activate the servo drive.
- **Command Input:** The master controller sends motion commands (position, velocity, torque) to the servo drive via the configured communication interface.
- **Feedback Monitoring:** The drive continuously monitors motor feedback (encoder) and adjusts its output to achieve the commanded motion profile.
- **Status Monitoring:** Monitor the drive's status indicators and diagnostic messages for normal operation or fault conditions.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of the servo drive.

- **Cleaning:** Periodically clean the exterior of the drive, especially ventilation openings, to prevent dust accumulation. Use a soft, dry cloth. Do not use liquid cleaners.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of wear or damage. Check for any unusual noises or odors during operation.
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Firmware Updates:** Consult the manufacturer's documentation for information on firmware updates and their installation procedures.

7. TROUBLESHOOTING

This section provides solutions to common issues. For complex problems, contact technical support.

Problem	Possible Cause	Solution
Drive does not power on.	No power supply; incorrect wiring; blown fuse.	Check power connections; verify input voltage; inspect fuses.
Motor does not move.	Drive not enabled; incorrect motor wiring; encoder issue; no motion command.	Verify drive enable signal; check motor and encoder wiring; send motion command from controller.
Overcurrent fault.	Motor overload; short circuit in motor wiring; incorrect motor parameters.	Reduce load; check motor wiring for shorts; verify motor parameters in configuration.
Overvoltage/Undervoltage fault.	Unstable power supply; incorrect input voltage.	Check power supply stability; ensure input voltage matches specifications.

8. SPECIFICATIONS

Key technical specifications for the SV630NS5R5I-FS Servo Drive:

- **Model:** SV630NS5R5I-FS
- **Manufacturer:** Yousi

- **Item Weight:** 6.6 pounds
- **Package Dimensions:** 11.81 x 11.81 x 11.81 inches
- **ASIN:** B0G4577Z2B
- **Date First Available:** November 26, 2025
- *Note: Specific electrical and performance parameters should be referenced from the product's technical datasheet.*

9. WARRANTY & SUPPORT

9.1 Warranty Information

This product is typically covered by a standard manufacturer's warranty against defects in materials and workmanship. The duration and terms of the warranty may vary. Please refer to the warranty card included with your purchase or contact your supplier for detailed warranty information.

9.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or spare parts inquiries, please contact your product supplier or the manufacturer's authorized service center. Have your product model number (SV630NS5R5I-FS) and serial number ready when contacting support.

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