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› Sriya NFLIXIN 9600-3T-01500G Variable Frequency Drive User Manual

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Model: 9600-3T-01500G

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of the Sriya NFLIXIN 9600-3T-01500G Variable Frequency Drive (VFD). Please read this manual thoroughly before installation, operation, or maintenance to ensure proper usage and prevent potential hazards. This VFD is designed to control AC motors by adjusting the frequency of the motor's power supply.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Installation and maintenance must be performed by qualified professionals only.

- Always read the instruction manual completely before any operation.
- Disconnect the power supply and wait at least 5 minutes before performing any maintenance or inspection on this equipment. This allows residual voltage to dissipate.
- Ensure the VFD is installed indoors, away from direct sunlight, dust, corrosive or flammable gases, oily smoke, steam, water, or any other liquids and salt.
- Do not operate the VFD with wet hands.
- Ensure proper grounding to prevent electric shock.

3. PRODUCT OVERVIEW

The Sriya NFLIXIN 9600-3T-01500G is a robust Variable Frequency Drive designed for industrial applications. It features advanced control capabilities and multiple protection mechanisms to ensure reliable motor operation.

3.1 Key Features

- **Smart Design:** Utilizes premium IGBT technology for efficient and reliable performance.

- **AC Motor VFD:** Controls AC motors by precisely changing the frequency of the motor's working power supply.
- **Fast Cooling:** Equipped with a powerful cooling fan for excellent heat dissipation and stable operation.
- **Comprehensive Control:** Includes automatic carrier frequency adjustment, V/F control, DC braking, RS485 communication, and more.
- **Multiple Protections:** Features safeguards against overcurrent, overvoltage, undervoltage, overload, and overheating, including a built-in filter module.

3.2 Product Components and Views



Figure 3.2.1: Front view of the VFD, showing the digital display, RUN/STOP buttons, and navigation keys.



Figure 3.2.2: Angled view of the VFD, illustrating the robust casing and ventilation grilles on the sides for heat dissipation.





Figure 3.2.3: Top-down view of the VFD, featuring the integrated cooling fan for efficient thermal management.



Figure 3.2.4: Bottom view of the VFD, displaying the mounting grid for secure installation.

4. SPECIFICATIONS

Parameter	Value
Model	9600-3T-01500G
Material	ABS
Input Voltage	Single Phase 380V
Input Frequency	50-60Hz
Output Voltage	3 Phase 0-380V
Output Frequency	0-650Hz
Rated Power	15KW
Rated Current	32A
Adaptive Motor	15KW 20HP
Dimensions (Approx.)	25 x 18 x 16cm / 9.84 x 7.09 x 6.3in
Overload Capacity	150%
Carrier Frequency Automatic Adjustment	Yes
Sensorless Vector Control	Yes
RS485 Communication	Yes
Starting Torsion	0.5Hz/150%
Frequency Resolution	0.1Hz
Maximum Frequency	3200Hz
V/F Curve Separation	Yes
Adjustable V/F Curve	Yes
DC Braking	Yes
Quick Current Limit	Yes
Motor Short Circuit Detection (Power On)	Yes

5. INSTALLATION

5.1 Environmental Requirements

- Install the VFD indoors.
- Avoid direct sunlight.
- Ensure the environment is free from excessive dust, corrosive or flammable gases.
- Protect from oily smoke, steam, water, or any other liquids and salt.

- Maintain adequate ventilation around the unit for proper heat dissipation.

5.2 Mounting

Mount the VFD securely using appropriate fasteners. Refer to Figure 3.2.4 for the mounting grid on the bottom of the unit. Ensure the mounting surface is stable and can support the weight of the VFD.

5.3 Wiring

All wiring must be performed by a qualified electrician in accordance with local and national electrical codes. Ensure the input power matches the VFD's specifications (Single Phase 380V). Connect the 3-phase motor to the VFD's output terminals. Proper grounding is essential.

6. OPERATING INSTRUCTIONS

6.1 Control Panel Overview

The VFD features a user-friendly control panel with a digital display and various buttons for operation and parameter setting.





Figure 6.1.1: Detailed view of the VFD control panel, showing the digital readout, 'RUN' (green), 'STOP/RESET' (red) buttons, and navigation keys (PRG, SHIFT, ENTER, Up/Down arrows).

- **Digital Display:** Shows operating frequency, output current, voltage, and parameter values.
- **RUN Button (Green):** Initiates motor operation.
- **STOP/RESET Button (Red):** Stops motor operation and resets fault conditions.
- **PRG (Program) Button:** Enters/exits parameter setting mode.
- **SHIFT Button:** Moves cursor or shifts digits during parameter editing.
- **ENTER Button:** Confirms parameter settings or enters sub-menus.
- **Up/Down Arrow Buttons:** Adjust parameter values or navigate through menus.

6.2 Basic Operation

1. **Power On:** After ensuring all connections are secure and safe, apply power to the VFD. The display will illuminate.
2. **Start Motor:** Press the **RUN** button to start the motor. The VFD will accelerate the motor to the set frequency.
3. **Stop Motor:** Press the **STOP/RESET** button to stop the motor. The VFD will decelerate the motor to a stop.
4. **Adjust Frequency:** Use the Up/Down arrow buttons to adjust the output frequency (and thus motor speed) during operation, if configured for keypad control.

6.3 Parameter Setting

To access and modify VFD parameters, press the **PRG** button. Navigate through the parameter groups and individual parameters using the Up/Down arrows. Use the **SHIFT** button to move between digits and the **ENTER** button to confirm changes. Refer to the detailed parameter list in the included physical user manual for specific parameter functions and ranges.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VFD.

- **Cleaning:** Periodically clean the VFD's exterior and ventilation grilles to prevent dust accumulation, which can hinder cooling. Ensure power is disconnected before cleaning.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of wear or damage. Check for any unusual noises or vibrations during operation.
- **Cooling Fan:** Ensure the cooling fan operates freely and is not obstructed. Replace if it becomes noisy or stops functioning.
- **Environmental Check:** Verify that the operating environment continues to meet the specified conditions (temperature, humidity, absence of contaminants).

8. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact technical support.

Problem	Possible Cause	Solution
VFD does not power on	No input power; Blown fuse; Internal fault	Check power supply; Inspect fuses; Contact support
Motor does not start	Incorrect wiring; Parameter settings; Emergency stop active	Verify wiring; Check parameters (e.g., start source); Reset E-stop
Overcurrent fault	Motor overload; Short circuit in motor/cables; Rapid acceleration	Reduce load; Check motor/cables; Adjust acceleration time
Overvoltage fault	High input voltage; Rapid deceleration; Regenerative load	Check input voltage; Increase deceleration time; Install braking resistor if needed
Overheat fault	Insufficient ventilation; High ambient temperature; Fan failure	Improve ventilation; Reduce ambient temp; Check/replace fan

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your vendor. For technical support, assistance with advanced configurations, or troubleshooting issues not covered in this manual, please contact Srliya customer service or your authorized distributor.

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