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NFLIXIN 9100-1T3-00400G

NFLIXIN 9100-1T3-00400G Variable Frequency Drive User Manual

Model: 9100-1T3-00400G

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the NFLIXIN 9100-1T3-00400G Variable Frequency Drive (VFD). This device is designed to convert single-phase 220V AC input into three-phase 380V AC output, providing variable speed control for 4KW (5 HP) motors. Please read this manual thoroughly before using the product.

2. SAFETY INFORMATION

WARNING: Electrical Hazard

- Always disconnect power before installation, wiring, or maintenance. Wait at least 10 minutes after disconnecting power for capacitors to discharge.
- Only qualified personnel should install, operate, and maintain this VFD.
- Ensure proper grounding to prevent electric shock.
- Do not open the VFD cover while power is connected.
- Protect the VFD from moisture, dust, and corrosive gases.
- Verify input and output voltage ratings match your application requirements.

3. PRODUCT FEATURES

- **Input:** Single-phase AC 220V \pm 15% (50Hz-60Hz)
- **Output:** Three-phase AC 0V-380V, 8.5A (0Hz-650Hz)
- **Matched Motor Power:** 4 KW (5 HP)
- **Control Mode:** Current vector control, standard V/F control
- **Output Voltage Regulation:** PWM control

- Integrated filter for enhanced performance
- Low frequency and high torque output
- Sensorless vector control capability
- Adjustable multi-speed settings
- Built-in RS485 communication interface
- Industrial flame-retardant ABS plastic casing for durability and safety
- Humanized keypad design for easy operation and clear display
- Efficient heat dissipation with a large aluminum base fan

4. SPECIFICATIONS

Parameter	Value
Model	9100-1T3-00400G
Input Voltage	AC 1 PH 220V \pm 15% (50Hz-60Hz)
Output Voltage	AC 3 PH 0V-380V
Rated Output Current	8.5 A
Matched Motor Power	4 KW (5 HP)
Output Frequency Range	0 Hz - 650 Hz
Protection Level	IP20
Efficiency	90.91%
Item Weight	2.01 Kilograms
Machine Size (L x W x H)	Approx. 160 x 125 x 170 mm (6.3 x 4.9 x 6.7 inches)



Figure 4.1: Dimensions of the NFLIXIN 9100-1T3-00400G VFD. This image illustrates the physical dimensions of the VFD, indicating a height of approximately 170mm (6.7 inches), a width of 125mm (4.9 inches), and a depth of 160mm (6.3 inches). These measurements are crucial for proper installation and space planning.

5. SETUP AND INSTALLATION

5.1 Unpacking

Carefully unpack the VFD and inspect it for any signs of damage during transit. Report any damage to your supplier immediately. Ensure all components listed in the packing list are present.

5.2 Mounting

Mount the VFD vertically on a flat, non-flammable surface in a well-ventilated area. Ensure adequate clearance around the unit for proper airflow and heat dissipation. Avoid mounting in direct sunlight or near heat sources.

5.3 Wiring

All wiring must comply with local and national electrical codes. Refer to the detailed wiring diagrams provided in the full English user manual (included with the product) for specific terminal connections. Ensure correct input power phase (single-phase 220V) and output connections to the three-phase 380V motor. Proper grounding is essential.



Figure 5.1: Front view of the NFLIXIN 9100-1T3-00400G VFD. This image displays the front panel of the VFD, featuring a red digital display for frequency and output parameters, along with control buttons for programming (PRG/ESC), shifting (SHIFT), reverse (REV/JOG), forward (FWD), stop/reset (STOP/RESET), and a rotary knob for adjustment. A warning label is visible at the bottom, reminding users to read the manual and not open the cover while powered.

6. OPERATING INSTRUCTIONS

6.1 Control Panel Overview

The VFD features a user-friendly control panel with a digital display and various buttons for parameter setting and operation. The display shows real-time operating data such as output frequency, current, and voltage.

6.2 Basic Operation

1. **Power On:** After ensuring all wiring is correct and secure, apply power to the VFD. The display will light up.
2. **Start Motor:** Press the **FWD** button for forward rotation or **REV/JOG** for reverse rotation (if configured).
3. **Adjust Frequency:** Use the rotary knob or the **UP/DOWN** arrow buttons to adjust the output frequency, thereby controlling the motor speed.
4. **Stop Motor:** Press the **STOP/RESET** button to stop the motor.
5. **Parameter Setting:** Press the **PRG/ESC** button to enter the parameter setting mode. Use the arrow keys and rotary knob to navigate and modify parameters. Refer to the detailed parameter list in the full manual.



Figure 6.1: Typical applications of the NFLIXIN VFD. This diagram illustrates common applications where the NFLIXIN VFD can be utilized. Examples include controlling grinders, exhaust fans, wood cutters, textile machines, and water pumps, demonstrating its versatility in industrial and commercial settings.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your VFD.

- **Cleaning:** Periodically clean the VFD's exterior and 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.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Cooling Fan:** Verify that the cooling fan is operating correctly and is free from obstructions.



Figure 7.1: Cooling system of the NFLIXIN VFD. A view of the VFD's underside, showing the integrated cooling fan and aluminum heat sink. This design ensures efficient heat dissipation, which is vital for the longevity and stable operation of the frequency drive.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
VFD does not power on	No input power; Blown fuse	Check power supply; Replace fuse (by qualified personnel)

Motor does not start	Incorrect wiring; Parameter settings incorrect; Emergency stop active	Verify wiring; Check parameter settings; Release emergency stop
Overcurrent fault	Motor overload; Short circuit in output; Acceleration time too short	Reduce load; Check motor and cables; Increase acceleration time parameter
Overvoltage fault	Input voltage too high; Deceleration time too short	Check input voltage; Increase deceleration time parameter
Overheat fault	Poor ventilation; Ambient temperature too high; Cooling fan failure	Improve ventilation; Reduce ambient temperature; Check/replace cooling fan

9. WARRANTY AND SUPPORT

The NFLIXIN 9100-1T3-00400G Variable Frequency Drive is designed for reliability and performance. For any questions, technical assistance, or warranty claims, please contact our customer service team. Our experienced support team aims to respond within 24 hours to assist you with any issues or inquiries.

Please refer to your purchase documentation for specific warranty terms and conditions.