

NICE-D-A-S0P2

Generic NICE900 Elevator Door Inverter Controller NICE-D-A-S0P2 User Manual

Model: NICE-D-A-S0P2

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Generic NICE900 Elevator Door Inverter Controller, model NICE-D-A-S0P2. Please read this manual thoroughly before attempting to install or operate the device. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Wait 10 minutes after power-off before removing cover. Read the manual and follow all safety instructions before use.

- Ensure all power is disconnected before installation, maintenance, or troubleshooting.
- Only qualified personnel should install, operate, or service this device.
- Verify correct wiring and connections according to local electrical codes and this manual.
- Do not operate the inverter with damaged components or wiring.
- Protect the device from moisture, dust, and extreme temperatures.

3. PRODUCT OVERVIEW

The NICE900 Elevator Door Inverter Controller is designed for precise control of elevator door mechanisms. It features a robust design and user-friendly interface for configuration and monitoring.



Figure 3.1: Front view of the NICE900 Elevator Door Inverter Controller. This image displays the main control panel with a digital display, navigation buttons (PRG, UP, DOWN, ENTER), and operation buttons (OPEN, CLOSE, STOP/RES).

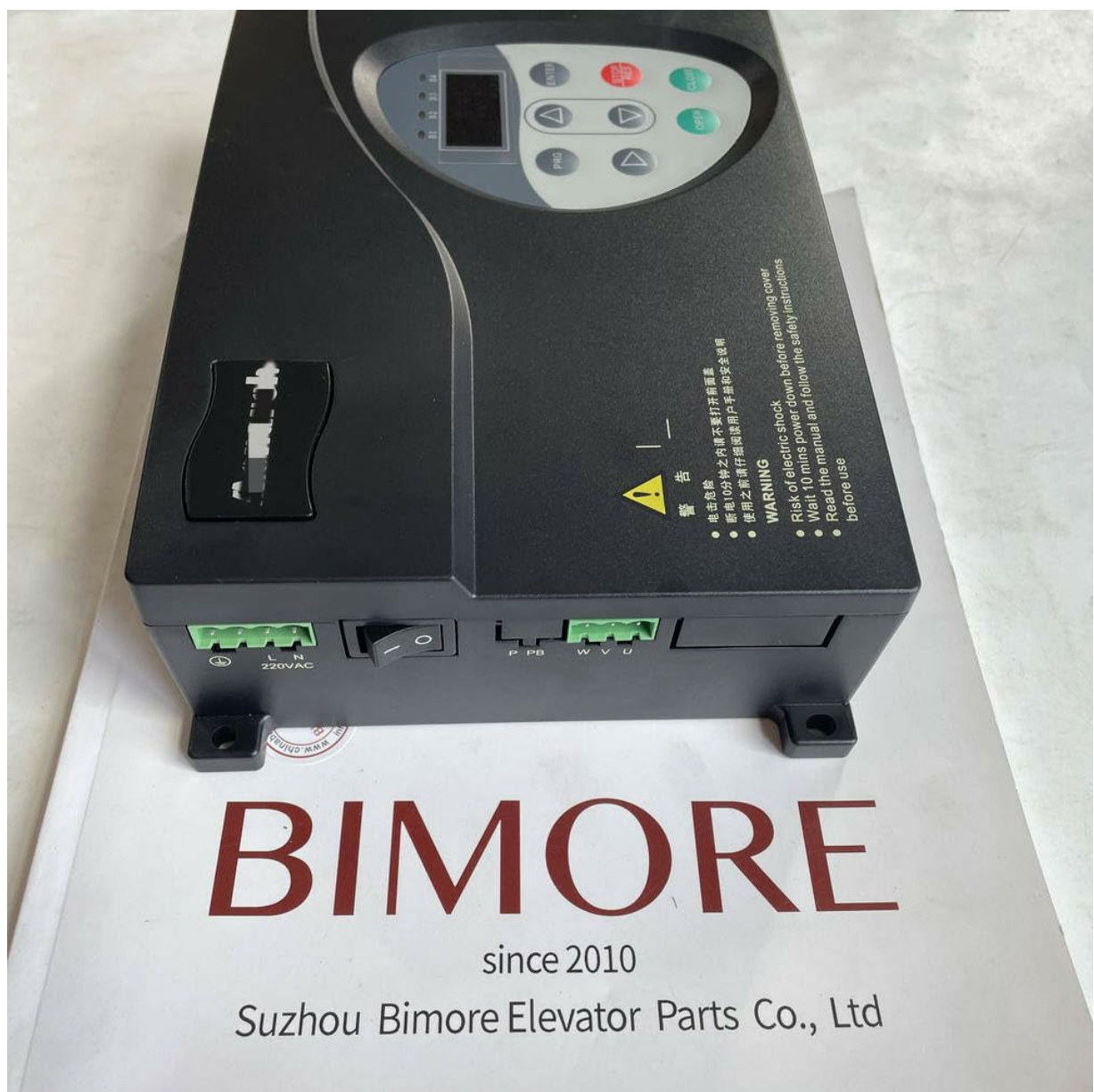


Figure 3.2: Side view of the controller, highlighting the L/N 220VAC power input terminals and the P PB W V U output terminals for motor connection. A power switch is also visible.



Figure 3.3: Rear view of the controller, showing the model number (NICE-D-A-S0P2), input/output specifications, and a heatsink for thermal management. The serial number for this unit is 010150144P850475.

Feature	Specification
Output Voltage	120 volts AC
Peak Output Power	250 watts
Electrical Output Waveform	Pure Sine Wave
ASIN	B0CJ81Y3MB

5. SETUP AND INSTALLATION

Proper installation is critical for the safe and reliable operation of the inverter controller. Consult a qualified electrician or elevator technician for installation.

- Mounting:** Securely mount the inverter controller in a clean, dry, and well-ventilated area, away from direct sunlight, heat sources, and excessive vibration. Ensure adequate clearance for cooling.
- Power Wiring:**
 - Connect the main AC power supply (L/N 220VAC) to the designated input terminals (refer to Figure 3.2).
 - Ensure proper grounding according to local electrical codes.
 - Use appropriate gauge wiring for the power input and output to prevent overheating.
- Motor Wiring:** Connect the elevator door motor to the output terminals (P, PB, W, V, U) as specified by the elevator system manufacturer and the inverter's wiring diagram.
- Control Signal Wiring:** Connect all necessary control signals (e.g., door open/close commands, safety interlocks, feedback signals) to the appropriate terminal blocks (CNU, CAN-, CAN+, MP24, OCM, D1-D8, TC1-TC3, TA1-TA3) as shown in Figure 3.4 and detailed in the elevator system's wiring diagram.
- Initial Power-Up:** After all connections are verified, apply power to the unit. Observe the display for any error codes or abnormal behavior.
- Parameter Configuration:** Refer to the specific programming guide for the NICE900 series to configure operational parameters such as motor type, door speed, acceleration/deceleration ramps, and safety limits.

6. OPERATING INSTRUCTIONS

Once installed and configured, the inverter controller operates in conjunction with the elevator's main control system. Manual operation and monitoring can be performed via the control panel.

- Display:** The digital display shows operational status, parameters, and error codes.
- Navigation Buttons (PRG, UP, DOWN, ENTER):** Use these buttons to navigate through menus, adjust parameters, and confirm selections during configuration or diagnostic checks.
- Operation Buttons (OPEN, CLOSE, STOP/RES):**
 - OPEN:** Initiates the door opening sequence.
 - CLOSE:** Initiates the door closing sequence.
 - STOP/RES:** Stops current operation or resets an error condition.
- Normal Operation:** In normal elevator operation, the door inverter controller receives commands from the elevator control system to open and close the doors smoothly and precisely.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of the inverter controller.

- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. Ensure ventilation openings are free from dust and debris. *Do not use liquid cleaners or solvents.*
- **Inspections:**
 - Check all wiring connections for tightness and signs of wear or damage.
 - Inspect the heatsink for dust accumulation and clean if necessary to maintain proper cooling.
 - Look for any signs of overheating, discoloration, or unusual odors.
- **Firmware Updates:** Consult the manufacturer's guidelines for any recommended firmware updates. These should only be performed by qualified technicians.
- **Power Cycle:** If the unit exhibits minor erratic behavior, a controlled power cycle (turn off, wait 10 minutes, turn on) may resolve the issue.

8. TROUBLESHOOTING

This section provides solutions to common issues. For complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Unit does not power on	No input power; Blown fuse; Faulty wiring.	Check power supply; Inspect fuses; Verify wiring connections.
Door not moving	Motor not connected; Incorrect parameters; Safety interlock active; Motor fault.	Check motor wiring; Verify parameter settings; Check safety circuit status; Inspect motor.
Error code displayed	Specific fault condition (e.g., overcurrent, overvoltage, sensor error).	Refer to the inverter's detailed error code manual for specific diagnostics and solutions. Press STOP/RES to clear if applicable.
Erratic door movement	Incorrect speed/acceleration settings; Mechanical obstruction; Sensor malfunction.	Adjust parameters; Check for obstructions; Inspect door sensors.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the vendor directly. Keep your purchase receipt and serial number (e.g., 010150144P850475) for warranty claims.