

NLQ4-125-4P

Generic NLQ4-125-4P 125A Dual Power Automatic Transfer Switch User Manual

Model: NLQ4-125-4P | Brand: Generic

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Generic NLQ4-125-4P 125A Dual Power Automatic Transfer Switch (ATS). This device is designed to automatically switch between two power sources, ensuring a continuous and reliable power supply for critical loads. Please read this manual thoroughly before installation and use.



Figure 1: Front view of the NLQ4-125-4P Automatic Transfer Switch.

SETUP AND INSTALLATION

Safety Warning: Installation must be performed by a qualified electrician in accordance with all local and national electrical codes. Ensure all power sources are disconnected before beginning installation to prevent electric shock.

1. **Circuit Connection:** Connect the public power supply and the backup power supply according to the circuit diagram. Ensure that the two circuit breakers are connected in parallel and that the phase order is consistent for both sources.
2. **Neutral Wire Connection:** If using a Class 3 circuit breaker, the neutral wire must be correctly connected to the designated neutral wire terminals (typically labeled 2# and 4#) on the ATS.
3. **Pre-Installation Check:** Before final installation, verify all connections and ensure the product is installed in a dry environment, free from moisture and excessive dust.
4. **Mounting:** Securely mount the ATS in a suitable enclosure or panel, ensuring adequate ventilation and clearance for wiring.



Figure 2: Bottom view showing terminal connections for the ATS.

OPERATING INSTRUCTIONS

The NLQ4-125-4P ATS is designed for automatic operation, providing seamless power transfer between primary and secondary power sources.

Automatic Mode

In automatic mode, the device continuously monitors the primary power source. In the event of a power failure (voltage loss or phase cut) from the primary source, the ATS will automatically switch to the secondary power source to maintain power to the connected loads. Once the primary power source is restored, the ATS will automatically switch back to the primary source.

Manual Operation

The ATS also supports manual operation. Refer to the switch on the device, typically labeled 'Auto' and 'Manual'. To manually switch between power sources, carefully follow the instructions on the device itself. **Always ensure safety precautions are followed during manual operation.**



Figure 3: The ATS with the Auto/Manual selector visible.

MAINTENANCE AND ENVIRONMENTAL CONDITIONS

Proper maintenance and adherence to environmental guidelines ensure the longevity and reliable operation of your ATS.

- **Temperature:** The ambient temperature should not exceed 40 °C (104 °F) and should not fall below -5 °C (23 °F). The average temperature over a 24-hour period should not exceed 35 °C (95 °F).
- **Altitude:** The installation site altitude should not exceed 2,000 meters (6,560 feet).
- **Humidity:** At a maximum temperature of 40 °C, the relative humidity should not exceed 50%. At lower temperatures, higher humidity is permissible (e.g., 90% at 25 °C). Special measures should be taken to prevent condensation on product surfaces due to temperature changes.
- **Environment:** Ensure the installation area has low pollution, is free from severe vibrations and shocks, corrosive environments, and excessive dust.
- **Cleaning:** Periodically inspect the device for dust accumulation and clean with a dry, soft cloth. Do not use liquid

cleaners.

- **Inspections:** Regular visual inspections by qualified personnel are recommended to check for loose connections or signs of wear.

TROUBLESHOOTING

If you experience issues with your Automatic Transfer Switch, consider the following general troubleshooting steps. For complex issues, always consult a qualified electrician.

- **No Power Transfer:** Check if both primary and secondary power sources are active. Verify all wiring connections are secure and correct according to the installation diagram.
- **Indicator Lights Off:** Ensure the control power supply to the ATS is active. Check for any tripped circuit breakers upstream.
- **Unusual Noises/Smells:** Immediately disconnect all power to the unit and contact a qualified technician. Do not attempt to operate the device.
- **Intermittent Operation:** Review environmental conditions to ensure they are within specified limits (temperature, humidity, dust).

PRODUCT SPECIFICATIONS

Specification	Value
Type	Dual Power Automatic Transfer Switch
Model	NLQ4-125-4P
Rated Voltage	400 V
Rated Current	125 A
Rated Frequency	50 Hz / 60 Hz
Rated Short-circuit Current	3 kA
Mechanical Life (Automatic)	3000 cycles
Mechanical Life (Manual)	1500 cycles
Rated Insulation Voltage	500 V
Manufacturer Model Number	UDTAUBCZE

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided at the time of purchase or contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question