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› Aoleaby Motor Brake Rectifier Module BME1.5 08257221 User Manual

Aoleaby Aoleaby

Aoleaby Motor Brake Rectifier Module BME1.5 08257221 User Manual

Model: Aoleaby

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Aoleaby Motor Brake Rectifier Module BME1.5 08257221. This module is designed to improve brake response and enhance operational efficiency and safety in various industrial applications. Please read this manual thoroughly before installation and operation.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure power is disconnected before installation, wiring, or maintenance.
- Installation should only be performed by qualified personnel.
- Verify correct voltage and current ratings before connecting the module. The module supports an input voltage (U_e) of 150-500V AC and a nominal current (I_N) of 1.5A DC.
- Protect the module from moisture, dust, and extreme temperatures.
- Do not attempt to disassemble or modify the module.

3. PRODUCT OVERVIEW

The Aoleaby BME1.5 08257221 is a compact and reliable brake rectifier module. It features built-in protection circuitry to enhance product reliability and is designed for long life and recyclability.

Key Features:

- **Rapid Brake Response:** Improves operational efficiency and safety.
- **Compact Design:** Small and lightweight for easy integration.
- **Long Life Design:** Durable and recyclable, reducing replacement frequency.
- **Protection Circuitry:** Enhances overall product reliability.
- **Wide Compatibility:** Suitable for various industrial applications.



Figure 3.1: Front view of the Aoleaby Motor Brake Rectifier Module BME1.5 08257221. The label displays the model number, CE marking, and electrical specifications including input voltage ($U_e = 150\text{--}500\text{V AC}$) and nominal current ($I_N = 1.5\text{A DC}$). A basic connection diagram is also visible.



Figure 3.2: Side view of the module, showing the two green terminal blocks where electrical connections are made. The compact nature of the module is evident.



Figure 3.3: Back view of the module, illustrating its plain black casing. This view emphasizes the sealed and robust construction.

4. SETUP AND INSTALLATION

The Aoleaby BME1.5 08257221 module is designed for straightforward installation, with no assembly required. Proper wiring is crucial for safe and effective operation.

Installation Steps:

1. **Power Disconnection:** Before beginning any installation, ensure that all power to the motor and braking system is completely disconnected and locked out.
2. **Mounting:** Securely mount the rectifier module in a location that is protected from excessive heat, moisture, and vibration. Ensure adequate ventilation.
3. **Wiring Connections:** Refer to the wiring diagram provided on the module's label (see Figure 3.1) and the specific requirements of your motor and braking system. Connect the AC input (150-500V AC) to the appropriate terminals and the DC output (1.5A DC) to the brake coil. Ensure all connections are tight and secure.
4. **Verification:** Double-check all wiring connections for correctness and polarity before restoring power.
5. **Power Restoration:** Carefully restore power to the system and test the brake functionality.

Note: Incorrect wiring can lead to module damage or system malfunction. Consult a qualified electrician if you are unsure about any wiring procedures.

5. OPERATING INSTRUCTIONS

Once properly installed and powered, the Aoleaby Motor Brake Rectifier Module operates automatically to provide rectified DC power to the motor brake. Its primary function is to ensure rapid and reliable brake engagement and disengagement.

- The module converts the incoming AC voltage (150-500V AC) into a stable DC voltage (1.5A DC) required by the brake coil.
- The built-in protection circuitry continuously monitors the module's operation, contributing to its reliability and preventing damage from electrical anomalies.
- No user intervention is typically required during normal operation.

6. MAINTENANCE

The Aoleaby Motor Brake Rectifier Module is designed for long-term reliability with minimal maintenance. Its "Long Life Design" emphasizes durability and recyclability.

- **Regular Inspection:** Periodically inspect the module and its connections for any signs of physical damage, loose wiring, or overheating.
- **Cleaning:** If necessary, gently clean the exterior of the module with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Environmental Control:** Ensure the operating environment remains within specified temperature and humidity ranges to prolong the module's lifespan.
- **No User-Serviceable Parts:** The module contains no user-serviceable parts. Do not attempt to open or repair it.

7. TROUBLESHOOTING

If you experience issues with the brake rectifier module, consider the following troubleshooting steps:

- **No Brake Engagement/Disengagement:**
 - Check if power is supplied to the module.
 - Verify all wiring connections are secure and correct according to the diagram.
 - Ensure the input voltage is within the specified range (150-500V AC).
 - Inspect the brake coil for any damage or open circuits.
- **Module Overheating:**
 - Check for proper ventilation around the module.
 - Ensure the load (brake coil) does not exceed the module's nominal current rating (1.5A DC).
 - Verify ambient temperature is within acceptable limits.
- **Intermittent Operation:**
 - Inspect for loose connections or intermittent power supply.
 - Check for any external interference or unstable power sources.

If the problem persists after performing these checks, contact customer support or a qualified technician for further assistance. Do not attempt to repair the module yourself.

8. SPECIFICATIONS

Attribute	Value
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Attribute	Value
Product Name	Motor Brake Rectifier Rectifier Module BME1.5 08257221 Brake Rectifier Module Brake Rectifier
Brand	Aoleaby
Model Number	Aoleaby
Input Voltage (Ue)	150-500V AC
Nominal Current (IN)	1.5A DC
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 pounds
Assembly Required	No
Number of Pieces	1

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts, please contact your point of purchase or the manufacturer, Aoleaby. Keep your purchase receipt as proof of purchase.
Manufacturer: Aoleaby

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