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› Eaton 183043 NH Separator 3P Flat Connection M10 Max. 150 mm²; Mounting Plate; NH1

Eaton 183043

Eaton 183043 NH Separator User Manual

Model: 183043

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Eaton 183043 NH Separator. Please read this manual thoroughly before attempting any installation or operation to ensure proper use and to prevent potential hazards.

The Eaton 183043 is a 3-pole NH fuse-switch disconnecter designed for flat connection with M10 terminals, capable of handling conductors up to 150 mm². It is intended for mounting plate installation in industrial electrical systems.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Only qualified and authorized personnel should install, operate, or maintain this device. Failure to follow these instructions can result in serious injury or death.

- Always disconnect power before working on the device or associated circuitry.
- Use appropriate personal protective equipment (PPE), including insulated gloves and eye protection.
- Ensure proper grounding of the equipment.
- Do not operate the device if it appears damaged.
- Adhere to all local and national electrical codes and regulations.

3. PRODUCT OVERVIEW

The Eaton 183043 NH Separator is a robust component for electrical distribution systems, designed to safely isolate circuits and protect against overcurrents when equipped with appropriate NH fuses (fuses not included). Its flat connection design facilitates easy integration into various panel configurations.



Figure 3.1: Front view of the Eaton 183043 NH Separator. This image shows the main body of the separator, featuring three distinct fuse compartments, a prominent operating handle at the top, and connection points at the bottom. The device is primarily grey with white accents, indicating its robust industrial design.

3.1 Key Components

- **Operating Handle:** For manual opening and closing of the disconnecter.
- **Fuse Compartments:** Three slots for NH fuse links (size NH1).
- **Flat Connection Terminals:** M10 terminals for secure conductor attachment.
- **Mounting Plate:** Integrated design for direct mounting.

4. SETUP AND INSTALLATION

Before installation, ensure the mounting surface is stable and capable of supporting the device's weight and operational forces. Verify that all necessary tools and materials are available.

4.1 Mounting

1. Select a suitable mounting location within the electrical panel or enclosure, ensuring adequate clearance for operation and maintenance.
2. Position the NH Separator on the mounting plate.
3. Secure the device using appropriate fasteners through the designated mounting holes. Ensure the device is firmly attached and level.

4.2 Electrical Connections

1. Ensure all power sources are disconnected and locked out before making any electrical connections.
2. Prepare conductors (up to 150 mm²) by stripping insulation to the appropriate length for the M10 terminals.
3. Connect the incoming and outgoing phase conductors to the respective flat connection terminals. Ensure connections are tight and secure to prevent loose contacts and overheating.
4. Install appropriate NH1 fuse links into the fuse compartments. Ensure fuses are correctly seated and rated for the application.
5. Verify all connections for proper polarity and tightness.

5. OPERATING INSTRUCTIONS

The Eaton 183043 NH Separator is designed for simple and reliable operation.

5.1 Switching On/Off

- **To Switch On (Close):** Firmly push the operating handle downwards until it locks into the closed position. This connects the circuit.
- **To Switch Off (Open):** Firmly pull the operating handle upwards until it locks into the open position. This isolates the circuit.

Note: Always ensure the handle is fully engaged in either the open or closed position to prevent partial contact and potential arcing.

5.2 Fuse Replacement

Fuse replacement should only be performed when the device is in the OFF (open) position and the circuit is de-energized.

1. Ensure the NH Separator is in the OFF position and the upstream power supply is disconnected.
2. Carefully remove the blown fuse link from its compartment.
3. Insert a new NH1 fuse link of the correct rating into the compartment, ensuring it is properly seated.
4. Close the NH Separator handle to restore power after verifying all connections and safety measures.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of the Eaton 183043 NH Separator. All maintenance should be performed by qualified personnel with the power disconnected.

- **Periodic Inspection:** Annually inspect the device for any signs of physical damage, discoloration due to overheating, or loose connections.
- **Cleaning:** Use a dry, lint-free cloth to clean the exterior of the device. Do not use abrasive cleaners or solvents.
- **Terminal Tightness:** Periodically check and re-tighten all electrical connections to the specified torque values (refer to relevant electrical standards or Eaton specifications if available).
- **Fuse Compartments:** Ensure fuse compartments are free from dust or debris that could impede proper fuse seating or heat dissipation.

7. TROUBLESHOOTING

This section provides guidance for common issues. For problems not listed here, contact Eaton customer support.

Problem	Possible Cause	Solution
Device does not switch ON/OFF smoothly.	Mechanical obstruction or internal damage.	Inspect for foreign objects. If mechanism is stiff, do not force; contact qualified personnel for inspection or replacement.
No power to circuit after switching ON.	Blown fuse, loose connection, or upstream power issue.	Check and replace blown fuses. Verify all electrical connections are tight. Check upstream power supply.
Overheating at terminals.	Loose connections or overloaded circuit.	Disconnect power and re-tighten terminal connections. Verify circuit load is within device and fuse ratings.

8. SPECIFICATIONS

Attribute	Value
Model Number	183043
Brand	Eaton
Product Type	NH Separator (Fuse-Switch Disconnecter)
Number of Poles	3P
Connection Type	Flat Connection M10
Max. Conductor Size	150 mm ²
Fuse Size Compatibility	NH1
Mounting	Mounting Plate
Product Dimensions (L x W x H)	120.47 x 72.44 x 46.06 inches
Weight	4.39 Pounds
Material	Plastic
Date First Available	September 7, 2023
Manufacturer	Eaton

9. WARRANTY AND SUPPORT

This product comes with a Worldwide Eaton Warranty. For specific warranty terms and conditions, please refer to the official Eaton warranty documentation or visit the Eaton website.

9.1 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Eaton customer support. You can find contact information on the official Eaton website or through your local distributor.

Eaton Official Website: www.eaton.com

Amazon Store: Visit the Eaton Store on Amazon