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Burndy NA15-4N

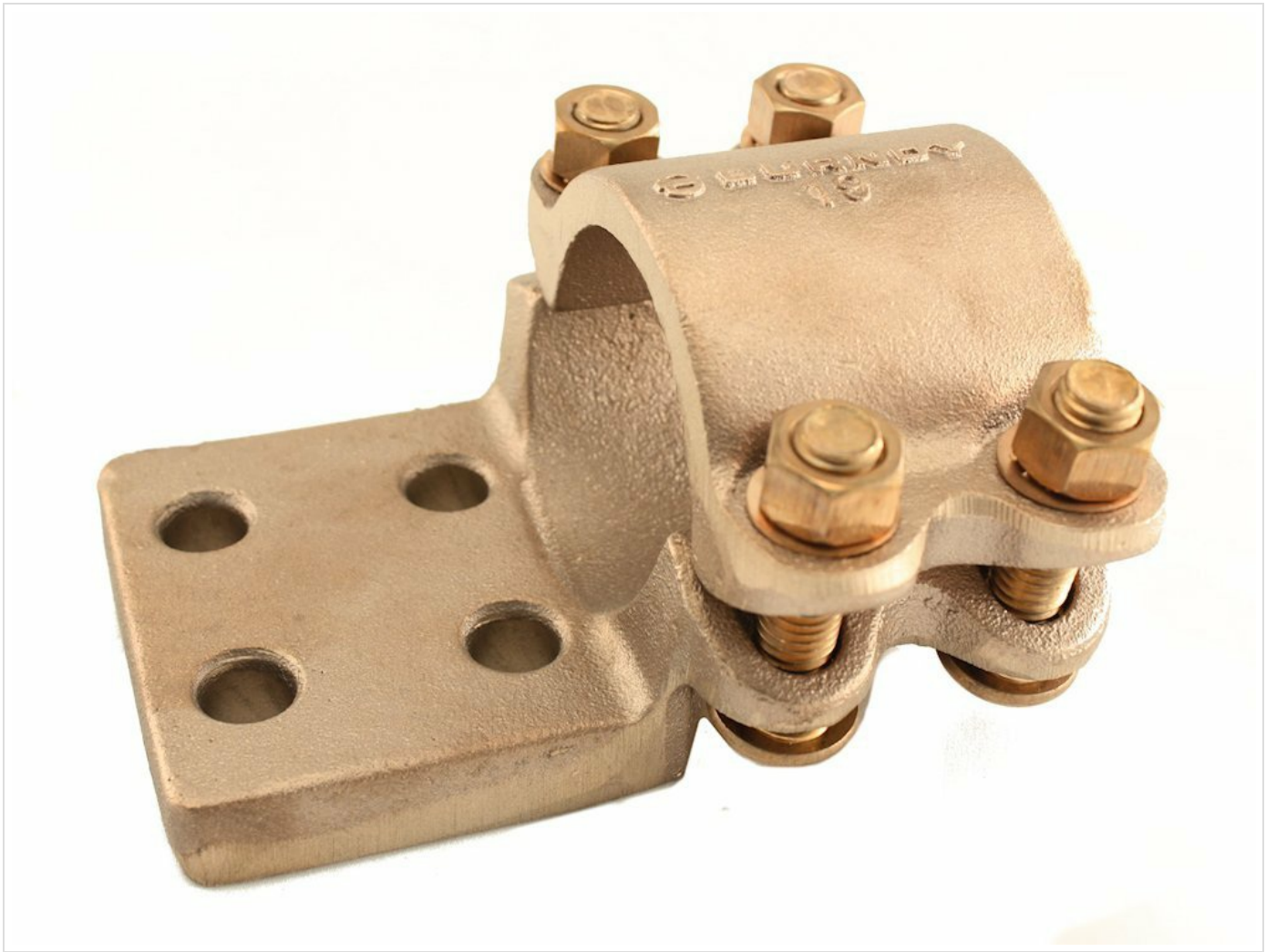
Burndy NA15-4N Terminal

User Manual

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the Burndy NA15-4N Terminal. Designed for robust electrical connections, this high copper alloy terminal facilitates the secure joining of copper tubes to flat pads, adhering to NEMA standards. Please read this manual thoroughly before installation and use to ensure safety and optimal performance.

Product Overview



This image displays the Burndy NA15-4N Terminal, a robust electrical connector. It features a cylindrical clamp on one side designed to secure a copper tube, and a flat, rectangular pad on the other side with four pre-drilled holes for attachment to a flat surface. The terminal is made of high copper alloy, visible by its metallic, bronze-like color, and includes brass-colored bolts and nuts for securing connections. The design facilitates a secure and efficient electrical connection between a copper tube and a flat conductor.

The Burndy NA15-4N Terminal is engineered for durability and reliability in electrical applications. Key features include:

- High copper alloy construction for superior conductivity and corrosion resistance.
- Designed for joining copper tube to a flat pad.
- Pad drilled to NEMA standards, ensuring compatibility and ease of installation.
- One-wrench installation for simplified and efficient setup.
- Features a four-hole pad for secure mounting.

Setup and Installation

Proper installation is crucial for the safe and effective operation of the Burndy NA15-4N Terminal. Always ensure power is disconnected before beginning any electrical work.

1. **Safety First:** Verify that all power sources to the area of installation are completely de-energized and locked out according to standard safety procedures.
2. **Prepare Surfaces:** Ensure that the copper tube and the flat pad surfaces are clean, dry, and free from any contaminants, oxides, or burrs. Use a wire brush if necessary to expose clean copper.
3. **Positioning:** Place the copper tube within the cylindrical clamp section of the terminal. Align the four-hole pad with the corresponding mounting points on the flat surface.
4. **Secure Connections:** Use appropriate hardware (not included) to firmly attach the four-hole pad to the flat surface. Tighten the bolts on the cylindrical clamp using a single wrench to secure the copper tube. Ensure all connections are tight to prevent loose contacts and overheating.
5. **Verify Installation:** Visually inspect the installed terminal to confirm it is securely mounted and the copper tube is firmly clamped.

Note: The terminal pad is drilled to NEMA standards, which specifies hole patterns for various electrical components, ensuring standardized mounting.

Operating Principles

The Burndy NA15-4N Terminal functions as a robust electrical connector, designed to create a reliable conductive path between a copper tube and a flat electrical conductor or busbar. Once properly installed, the terminal maintains a low-resistance connection, facilitating the efficient flow of electrical current.
Its operation is passive; it does not have moving parts or require active control. Its effectiveness relies entirely on the quality of its installation and the integrity of the materials it connects. The high copper alloy construction ensures minimal power loss and heat generation at the connection point under normal operating conditions.

Maintenance

Regular inspection and maintenance can extend the lifespan and ensure the continued reliability of the Burndy NA15-4N Terminal.

- **Periodic Inspection:** Annually, or more frequently in harsh environments, inspect the terminal for signs of corrosion, discoloration (indicating overheating), or physical damage.
- **Connection Integrity:** Check the tightness of all bolts and nuts. Vibrations or thermal cycling can sometimes loosen connections over time. Retighten to manufacturer specifications if available, or to a firm, secure torque.
- **Cleaning:** If dust or dirt accumulates, gently clean the exterior of the terminal with a dry, non-abrasive cloth. Do not

use harsh chemicals or abrasive materials that could damage the copper alloy.

- **Environmental Factors:** Ensure the terminal is not exposed to excessive moisture, corrosive chemicals, or extreme temperatures beyond its design limits, as these can degrade performance.

Warning: Always de-energize the circuit before performing any inspection or maintenance on the terminal.

Troubleshooting

While the Burndy NA15-4N Terminal is a passive component, issues can arise from improper installation or environmental factors. Common issues and their potential solutions are listed below:

Problem	Possible Cause	Solution
Overheating at connection point	Loose connection; Corroded surfaces; Undersized conductor (tube/flat)	De-energize, retighten bolts; De-energize, clean contact surfaces; Consult an electrician to verify conductor sizing.
Visible corrosion on terminal	Exposure to moisture or corrosive agents; Lack of protective coating	Clean with appropriate non-abrasive cleaner (after de-energizing); Consider applying a suitable anti-corrosion compound if environment is harsh.
Physical damage (cracks, deformation)	Excessive force during installation; Impact damage; Material fatigue	De-energize and replace the terminal immediately. Do not attempt to repair damaged terminals.

If issues persist or you are unsure about troubleshooting steps, consult a qualified electrician.

Specifications

The following specifications apply to the Burndy NA15-4N Terminal:

- **Model Number:** NA15-4N
- **Material:** High Copper Alloy
- **Conductor Compatibility:** 1" Copper Tube to Flat Pad
- **Pad Configuration:** 4-Hole, NEMA Standard Drilled
- **Dimensions (Approximate):**
  - Width: 3 inches
  - Length: 5-1/4 inches
  - Height: 2-1/8 inches
  - Thickness: 3/8 inches (pad)
- **Weight:** Approximately 2.7 Pounds (per item)
- **Standard Met:** NEMA
- **Global Trade Identification Number (GTIN):** 00781810002445

Warranty and Support

Specific warranty details for the Burndy NA15-4N Terminal are typically provided by the manufacturer, Burndy, or the authorized seller at the time of purchase. Please refer to your purchase documentation or contact the seller directly for information regarding warranty coverage, terms, and conditions.
For technical support, installation queries, or further assistance, it is recommended to contact Burndy customer service or

a certified electrical professional. Always ensure that any work on electrical systems is performed by qualified personnel.

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