Goodman 0130M00138

Goodman 0130M00138 Transformer Instruction Manual

Model: 0130M00138 | Brand: Goodman

1. Introduction

This manual provides essential information for the safe and proper installation, operation, and maintenance of the Goodman 0130M00138 Transformer. This component is designed to convert a 208/230V AC input to a 24V AC output, typically used in HVAC (Heating, Ventilation, and Air Conditioning) systems for control circuits.
Please read this manual thoroughly before attempting any installation or service to ensure personal safety and optimal product performance.

2. Safety Information

WARNING: Electrical shock hazard. Improper installation or maintenance can result in serious injury or death. All electrical work should be performed by a qualified and licensed electrician or HVAC technician.

- Always disconnect all power to the HVAC unit and the transformer before installation, maintenance, or troubleshooting.
- Verify the input voltage matches the transformer's specifications (208/230V AC).
- Ensure all wiring connections are secure and comply with local and national electrical codes.
- Do not operate the transformer if it appears damaged.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.

3. Product Overview

The Goodman 0130M00138 is a robust power transformer designed for reliable voltage reduction in various HVAC applications. It steps down higher line voltages (208V or 230V) to a safe and usable 24V, which is commonly required for thermostats, control boards, relays, and other low-voltage components within heating and cooling systems.
This transformer is built to meet industry standards, including UL and cUL certifications, ensuring safety and performance.




COM
208 240
0130M00138
PRI 208/240 VAC SEC 24 VAC
40 VA 60 Hz
CLASS 2 NOT WET CLASS 3 WET
ISC-CLASS 130 (B) INSULATION
HCT-09VE0K26108
MADE IN CHINA
HARTLAND CONTROLS ROCK FALLS, IL
H5218
24



Figure 1: Goodman 0130M00138 Transformer. This image shows the compact design of the transformer with its various wiring terminals.

4. Setup and Installation

Installation should only be performed by qualified personnel. Ensure all power is disconnected before proceeding.

4.1 Pre-Installation Checks

- Confirm the new transformer matches the specifications of the original part, if replacing.
- Inspect the transformer for any visible damage from shipping.
- Gather necessary tools: screwdriver set, wire strippers, multimeter, electrical tape, wire nuts.

4.2 Mounting

The Goodman 0130M00138 Transformer features an RM (Rack Mount or Panel Mount) type mounting. Secure the transformer firmly to a stable surface within the HVAC unit, ensuring it does not obstruct other components or airflow. Use appropriate fasteners for the mounting holes provided.

4.3 Wiring Instructions

1. **Disconnect Power:** Turn off the main power supply to the HVAC system at the circuit breaker. Verify with a multimeter that no voltage is present.
2. **Identify Wires:** Carefully identify the high voltage input wires (208V/230V) and the low voltage output wires (24V) from your HVAC system. Refer to your HVAC unit's wiring diagram.
3. **Connect Input:** Connect the 208V/230V AC input wires to the primary terminals of the transformer. Ensure correct voltage matching (e.g., if your system is 230V, connect to the 230V primary tap).
4. **Connect Output:** Connect the 24V AC output wires from the transformer's secondary terminals to the control circuit of your HVAC system.
5. **Secure Connections:** Use wire nuts or appropriate connectors to secure all connections. Ensure no bare wires are exposed.
6. **Verify:** Double-check all wiring against the HVAC unit's schematic and the transformer's labeling.
7. **Restore Power:** Once all connections are secure and verified, restore power to the HVAC system.

5. Operation

The Goodman 0130M00138 Transformer operates passively. Once correctly installed and powered, it continuously converts the higher input voltage (208V/230V) to the required 24V for the HVAC control circuits. There are no user-adjustable settings or controls on the transformer itself.
After installation, verify the output voltage using a multimeter to ensure it is within the expected 24V range before fully operating the HVAC system.

6. Maintenance

The Goodman 0130M00138 Transformer requires minimal maintenance. Regular inspections are recommended as part of routine HVAC system servicing.

- **Visual Inspection:** Periodically check the transformer for any signs of overheating (discoloration), physical damage, or loose connections.
- **Cleanliness:** Ensure the transformer is free from dust, dirt, and debris, which can impede heat dissipation. Use a soft, dry brush or compressed air for cleaning.
- **Connection Integrity:** With power disconnected, gently check all wire connections to ensure they remain tight and secure.

7. Troubleshooting

If your HVAC control circuit is not receiving power, or if the system is malfunctioning, consider the following troubleshooting steps. Always disconnect power before inspecting components.

Problem	Possible Cause	Solution
No 24V output from transformer	No input voltage Blown fuse (if applicable in the circuit) Faulty transformer Loose wiring connections	Check main power supply to HVAC unit. Inspect and replace any blown fuses in the control circuit. Test input voltage at transformer primary. If present, test output voltage at secondary. If no output, replace transformer. Secure all wiring connections.
Transformer humming loudly or overheating	Overload on 24V circuit Internal short circuit Incorrect input voltage	Disconnect 24V load and re-test. Identify and rectify overload. Disconnect power immediately. Replace transformer. Verify input voltage matches transformer rating.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician or Goodman customer support.

8. Specifications

Feature	Detail
Brand	Goodman
Model Number	0130M00138
Input Voltage	208V / 230V AC
Output Voltage	24V AC
Product Dimensions	4 x 4 x 2 inches
Item Weight	1.35 pounds
Mounting Type	RM (Rack Mount / Panel Mount)

Feature	Detail
Certifications	UL, cUL
Power Source	Corded Electric

9. Warranty and Support

Goodman products are manufactured to high-quality standards and typically come with a manufacturer's warranty. For specific warranty details pertaining to your Goodman 0130M00138 Transformer, please refer to the documentation included with your purchase or visit the official Goodman website.

For technical support, replacement parts, or further assistance, please contact Goodman customer service or a certified Goodman dealer. You can find more information and contact details on the Goodman Brand Store on Amazon or the official Goodman website.

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.

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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