

## Packard C330C

# Packard C330C 3 Pole 30 Amp Contactor

Model: C330C (Part No. HM-02125)

## 1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Packard C330C 3 Pole 30 Amp Contactor. This genuine Packard brand contactor is designed for switching electrical power in various applications, featuring a 208/240 volt coil and a 3-pole, 30 amp rating. Please read this manual thoroughly before installation and operation to ensure proper function and safety.



Figure 1: The Packard C330C 3 Pole 30 Amp Contactor. This image shows the compact black housing with three main terminals for power connections and two smaller terminals for the coil voltage.

## 2. SAFETY INFORMATION

**WARNING:** Electrical shock hazard. Installation and servicing should only be performed by qualified personnel. Failure to follow these instructions could result in serious injury or death.

- Always disconnect power at the main circuit breaker or fuse box before installing, servicing, or removing the contactor.
- Verify that the voltage and current ratings of the contactor match the requirements of your application. This contactor is rated for 208/240 Volt coil and 30 Amp, 3-pole switching.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not operate the contactor if it appears damaged or has been exposed to moisture.
- Adhere to all local electrical codes and regulations.

## 3. SETUP AND INSTALLATION

The Packard C330C contactor is designed for straightforward installation. Follow these general steps:

1. **Power Disconnection:** Turn off all power to the circuit where the contactor will be installed. Use a voltage tester to confirm that power is off.

2. **Mounting:** Securely mount the contactor in a suitable electrical enclosure using its integrated mounting brackets. Ensure adequate ventilation.
3. **Power Wiring:** Connect the incoming power lines to the designated line terminals (L1, L2, L3) of the contactor.
4. **Load Wiring:** Connect the outgoing load lines (e.g., to a motor, HVAC unit) to the corresponding load terminals (T1, T2, T3).
5. **Coil Wiring:** Connect the 208/240 Volt control voltage to the coil terminals (typically marked A1, A2 or similar). This voltage activates the contactor.
6. **Verify Connections:** Double-check all wiring for correct polarity, secure connections, and proper insulation.
7. **Restore Power:** Once all connections are verified and the enclosure is closed, restore power to the circuit.

*Note:* Refer to your specific system's wiring diagram for precise connection points.

## 4. OPERATING PRINCIPLES

The Packard C330C contactor operates as an electrically controlled switch. When the rated 208/240 Volt AC power is applied to its coil terminals, an electromagnetic field is generated. This field pulls a movable armature, causing the main power contacts to close, thereby allowing current to flow from the line terminals to the load terminals. When the control voltage to the coil is removed, the electromagnetic field collapses, and springs return the contacts to their open position, interrupting the power flow to the load.

This contactor is commonly used in applications requiring remote control of high-current loads, such as motors in HVAC systems, pumps, or lighting circuits.

## 5. MAINTENANCE

The Packard C330C contactor is designed for reliable, long-term operation with minimal maintenance. However, periodic inspection can help ensure optimal performance and longevity.

- **Visual Inspection:** Annually inspect the contactor for any signs of physical damage, discoloration from overheating, or loose connections.
- **Terminal Tightness:** With power disconnected, periodically check that all terminal screws are tight. Loose connections can cause overheating and arcing.
- **Cleanliness:** Ensure the contactor and its enclosure are free from dust, dirt, and debris, which can impede proper operation or cause insulation breakdown.
- **Contact Wear:** While typically not user-serviceable, excessive arcing or frequent switching of heavy loads can lead to contact wear over time. If the contactor fails to engage reliably or shows signs of excessive heat, replacement may be necessary.

*Always disconnect power before performing any maintenance.*

## 6. TROUBLESHOOTING

If the Packard C330C contactor is not functioning as expected, consider the following common issues:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem                                                             | Possible Cause                                                                                                                                    | Solution                                                                                                                                            |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Contactor does not pull in (click) when control voltage is applied. | No control voltage to coil.<br>Incorrect control voltage (e.g., 120V instead of 240V).<br>Open coil circuit (damaged coil).<br>Loose coil wiring. | Check control circuit breaker/fuse.<br>Verify control voltage with a multimeter.<br>Replace contactor if coil is open.<br>Tighten coil connections. |
| Contactor hums loudly or chatters.                                  | Low control voltage.<br>Mechanical obstruction.<br>Damaged shading coil (internal).                                                               | Verify control voltage.<br>Inspect for foreign objects.<br>Replace contactor.                                                                       |
| Contactor pulls in but load does not receive power.                 | No main power to line terminals.<br>Open circuit in load wiring.<br>Welded or pitted main contacts.                                               | Check main circuit breaker/fuse.<br>Inspect load wiring for breaks.<br>Replace contactor.                                                           |

If troubleshooting steps do not resolve the issue, consult a qualified electrician or contact Packard customer support.

## 7. SPECIFICATIONS

| Attribute            | Value                     |
|----------------------|---------------------------|
| Brand                | Packard                   |
| Model Number         | C330C (Part No. HM-02125) |
| Poles                | 3-Pole                    |
| Amp Rating           | 30 Amp                    |
| Coil Voltage         | 208/240 Volt AC           |
| Item Weight          | 15.2 ounces               |
| Package Dimensions   | 4 x 3.2 x 2.5 inches      |
| Batteries Required   | No                        |
| First Available Date | December 6, 2012          |

## 8. WARRANTY AND SUPPORT

For specific warranty information regarding your Packard C330C contactor, please refer to the documentation provided at the time of purchase or contact Packard directly. Warranty terms typically cover defects in materials and workmanship under normal use.

If you require technical assistance or have questions not covered in this manual, please contact the seller or the manufacturer's customer support. When contacting support, please have your product model number (C330C) and any relevant purchase details ready.

Note: Unauthorized modifications or improper installation may void the product warranty.

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## 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

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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