

Bryant 3100-15Q228

Bryant Single Pole 30 Amp Condenser Contactor 3100-15Q228 User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Bryant Single Pole 30 Amp Replacement Condenser Contactor, model 3100-15Q228. This component is designed for use in residential air conditioning units to control the flow of electricity to the condenser fan and compressor. Please read this manual thoroughly before installation or operation.

2. SAFETY INFORMATION

WARNING: Electrical Shock Hazard. Disconnect power before servicing.

- Installation and servicing of this product should only be performed by a qualified HVAC technician or licensed electrician.
- Always disconnect all power to the air conditioning unit at the main breaker or disconnect switch before attempting any installation, maintenance, or troubleshooting.
- Verify that the replacement contactor's specifications (voltage, amperage) match the original unit's requirements.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits and electrical hazards.
- Failure to follow these safety instructions could result in property damage, serious injury, or death.

3. PRODUCT OVERVIEW

The Bryant 3100-15Q228 is a single-pole, 30 Amp replacement condenser contactor. It acts as an electrically operated switch, controlling the high-voltage power to the outdoor unit's compressor and fan motor based on a low-voltage signal from the thermostat. This contactor is compatible with most residential AC units requiring a single-pole, 30 Amp contactor.

- **Type:** Single Pole / 1 Pole
- **Current Rating:** 30 Amps
- **Application:** Replacement contactor for residential AC units.



Figure 1: Bryant Single Pole 30 Amp Condenser Contactor 3100-15Q228. This image shows the front view of the contactor with its terminals and coil connections.

4. SETUP (INSTALLATION)

The installation of a condenser contactor involves working with high voltage electricity and should only be performed by a qualified professional. The following steps are for informational purposes only and do not substitute for professional expertise.

1. **Disconnect Power:** Turn off all power to the outdoor AC unit at the main electrical panel and the outdoor disconnect switch. Verify power is off using a voltage tester.
2. **Access Contactor:** Open the electrical panel cover on the outdoor unit to access the existing contactor.
3. **Photograph Wiring:** Take clear photos of the existing wiring connections to the contactor for reference.
4. **Disconnect Wires:** Carefully disconnect all high-voltage (line and load) and low-voltage (coil) wires from the old contactor. Note their positions.
5. **Remove Old Contactor:** Unmount the old contactor from its position.

6. **Install New Contactor:** Mount the new Bryant 3100-15Q228 contactor in the same location.
7. **Reconnect Wires:** Connect the high-voltage and low-voltage wires to the new contactor, ensuring they match the original configuration. Refer to your photographs. Ensure all connections are tight and secure.
8. **Secure Panel:** Replace the electrical panel cover.
9. **Restore Power:** Restore power to the AC unit at the disconnect switch and main electrical panel.
10. **Test Operation:** Initiate a cooling cycle from the thermostat to verify the contactor engages and the outdoor unit operates correctly.

5. OPERATING INSTRUCTIONS

The condenser contactor operates automatically as part of your HVAC system. It does not require manual operation. When the thermostat calls for cooling, it sends a low-voltage signal to the contactor's coil. This energizes the coil, creating an electromagnetic field that pulls the contactor's plunger, closing the high-voltage contacts. This action allows power to flow to the compressor and outdoor fan, initiating the cooling cycle. When the thermostat satisfies the cooling demand, the low-voltage signal is removed, the coil de-energizes, and the contacts open, shutting off power to the outdoor unit.

6. MAINTENANCE

Regular inspection of the contactor can help ensure reliable operation of your AC unit. Always disconnect power before performing any inspection or maintenance.

- **Visual Inspection (Annually):** With power disconnected, visually inspect the contactor for signs of wear, pitting on the contacts, discoloration, or loose wiring.
- **Cleaning:** If dust or debris has accumulated, gently clean the contactor and surrounding area with a soft brush or compressed air. Do not use liquids.
- **Terminal Tightness:** Check that all electrical connections are tight. Loose connections can cause overheating and premature failure.
- **Contact Pitting:** Minor pitting on contacts is normal over time. Excessive pitting or welding of contacts indicates a need for replacement.

7. TROUBLESHOOTING

If your AC unit is not functioning correctly, the contactor may be a point of failure. Always ensure power is disconnected before inspecting the contactor.

Symptom	Possible Cause	Action
Outdoor unit not starting (no fan, no compressor)	Contactor not engaging; no low-voltage signal; faulty contactor coil; stuck contacts.	Check thermostat settings. Verify low-voltage signal to contactor coil. Inspect contactor for physical damage or stuck plunger. Replace if faulty.
Outdoor unit runs continuously	Contactor contacts are welded shut or stuck in the closed position.	Disconnect power. Inspect contacts for welding. Replace contactor if contacts are stuck.
Humming noise from outdoor unit, but no operation	Contactor coil partially energized or contacts not fully closing.	Check for proper low-voltage supply to the coil. Inspect for debris preventing full contact closure. Replace contactor if coil or contacts are faulty.

Symptom	Possible Cause	Action
Intermittent operation	Loose wiring connections; worn contacts; weak coil.	Disconnect power. Tighten all wiring connections. Inspect contacts for excessive wear. Replace contactor if contacts are severely worn or coil is weak.

If troubleshooting steps do not resolve the issue, it is recommended to contact a qualified HVAC technician.

8. SPECIFICATIONS

- **Brand:** Bryant
- **Model Number:** 3100-15Q228 (Replaces part # 3100-15Q228)
- **Contactor Type:** Single Pole / 1 Pole
- **Current Rating:** 30 Amps
- **Contact Type:** Normally Open
- **Connector Type:** Screw
- **Number of Terminals:** 3
- **Operation Mode:** Manual (This typically refers to a manual reset capability, not manual operation of the device itself.)
- **Item Weight:** Approximately 9 ounces
- **Manufacturer:** Totaline

9. WARRANTY AND SUPPORT

Specific warranty information for this replacement part may vary depending on the seller and purchase date. Please refer to your purchase documentation or contact the seller directly for details regarding warranty coverage.

For technical support or further assistance, please contact the retailer from whom you purchased this product or a qualified HVAC professional.

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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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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