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ALLIANCE LAUNDRY SYSTEMS C16

ALLIANCE LAUNDRY SYSTEMS Contactor C16 220V Pkg (F330177P) Instruction Manual

Model: C16 | Part Number: F330177P

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of the ALLIANCE LAUNDRY SYSTEMS Contactor C16 220V Pkg (F330177P). Please read this manual thoroughly before proceeding with any procedures to ensure proper functionality and to prevent potential hazards.

2. PRODUCT OVERVIEW



Image 2.1: Front view of the ALLIANCE LAUNDRY SYSTEMS C16 220V Contactor. This image displays the main body of the contactor, including the Allen-Bradley branding, model number 100-C16*01-X3 B, electrical ratings (200-240V, 50/60Hz), and terminal markings (L1, L2, L3, T1, T2, T3).

The ALLIANCE LAUNDRY SYSTEMS Contactor C16 220V Pkg is a critical electrical component designed for controlling electrical circuits, particularly in industrial and commercial laundry equipment. It functions as an electrically operated switch, providing a safe and efficient means to switch a power circuit. This genuine OEM part ensures compatibility and reliable performance with various laundry systems.

Key Features:

- **Compatibility:** Fits Ipsos, Huebsch, Speed Queen, Unimac, Econo-Wash, Primus, and Alliance Laundry Systems Washer/Dryer units.
- **Genuine OEM Part:** Ensures high quality and perfect fit, replacing original part numbers 801423, F330177, TU21462, and TU21192.
- **Voltage Rating:** Designed for 220V applications, suitable for various power requirements.

- **Robust Construction:** Built for durability and long-term performance in demanding environments.

3. SPECIFICATIONS

Specification	Detail
Brand Name	ALLIANCE LAUNDRY SYSTEMS
Model Name	C16
Part Number	F330177P
Voltage Rating (from label)	200-240V, 50/60Hz
AC-1 Rating (from label)	690V 32A
AC-12 Rating (from label)	20A
Item Weight	14.6 ounces
Package Dimensions	8.25 x 6.85 x 3.2 inches
Manufacturer	Alliance Laundry Systems

Note: Specifications are based on product information and label details. Always refer to the product label for precise ratings.

4. INSTALLATION AND SETUP

WARNING: Electrical installation should only be performed by qualified personnel. Ensure all power is disconnected at the main circuit breaker before beginning any installation or maintenance work. Failure to do so can result in serious injury or death.

- Power Disconnection:** Locate the main power supply to the equipment where the contactor will be installed. Turn off and lock out the power source to prevent accidental re-energization. Verify zero voltage with a multimeter.
- Identify Wiring:** Carefully identify the existing wiring connected to the old contactor (if replacing) or the designated wiring points for the new installation. Pay close attention to line (L1, L2, L3) and load (T1, T2, T3) connections, as well as control circuit wiring (A1, A2 for coil). Refer to the equipment's wiring diagram.
- Mounting:** Mount the new contactor securely in the designated electrical enclosure. Ensure it is firmly attached to a DIN rail or mounting plate, if applicable, to prevent vibration and movement.
- Wiring Connections:** Connect the power and control wires to the appropriate terminals on the contactor.
 - **Line Side (Input):** Connect incoming power lines to terminals L1, L2, L3.
 - **Load Side (Output):** Connect the load (e.g., motor, heating element) to terminals T1, T2, T3.
 - **Control Coil:** Connect the control circuit wires to the coil terminals (typically A1 and A2). The label indicates 200-240V for the coil.
 - **Auxiliary Contacts:** If auxiliary contacts are used (e.g., for interlocking or signaling), connect them according to the wiring diagram. The label shows "Aux. Cont." and "A600 P600".

Ensure all connections are tight and secure to prevent loose connections, which can cause overheating or arcing.

- 5. **Verify Installation:** Double-check all wiring connections against the equipment's schematic. Ensure no bare wires are exposed and that the contactor is properly seated.
- 6. **Restore Power:** Once installation is complete and verified, restore power to the equipment.

5. OPERATION

The C16 contactor operates by receiving an electrical signal to its control coil, which then closes the main power contacts, allowing current to flow to the connected load. When the signal to the coil is removed, the contacts open, interrupting the power flow.

- **Energizing the Coil:** When the control circuit supplies the rated voltage (200-240V AC) to the A1 and A2 terminals, the electromagnetic coil inside the contactor becomes energized.
- **Contact Closure:** The energized coil pulls the movable contacts into connection with the stationary contacts, completing the circuit between the L1, L2, L3 (line) terminals and the T1, T2, T3 (load) terminals.
- **Power to Load:** Electrical power is then supplied to the connected appliance or motor.
- **De-energizing the Coil:** When the control voltage is removed from A1 and A2, the coil de-energizes, and springs return the contacts to their open (normally open) position, interrupting power to the load.

The operation of the contactor is typically automated by the laundry equipment's control system, responding to cycles and user inputs.

6. MAINTENANCE

Regular inspection and maintenance can extend the lifespan of your contactor and ensure safe operation. Always disconnect power before performing any maintenance.

- **Visual Inspection (Monthly/Quarterly):**
 - Check for signs of overheating, such as discoloration or melted plastic on the contactor body or terminals.
 - Inspect wiring for fraying, damage, or loose connections.
 - Look for excessive dust or debris accumulation, especially around moving parts and contacts.
- **Terminal Tightness (Annually):** With power disconnected, use an insulated screwdriver to gently check the tightness of all terminal screws. Loose connections can cause resistance, heat, and potential failure.
- **Contact Wear (As needed):** If the contactor is frequently cycling or operating under heavy loads, inspect the main contacts for pitting or excessive wear. Severely worn contacts may require replacement of the contactor.
- **Cleaning:** Use a dry, non-conductive brush or compressed air to remove dust and debris from the contactor. Do not use liquids or solvents.

If any damage or excessive wear is observed, the contactor should be replaced immediately by a qualified technician.

7. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, consult a qualified electrician or service technician.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Contactor does not energize (no click)	<ul style="list-style-type: none"> ◦ No control voltage to coil (A1/A2) ◦ Open control circuit (e.g., faulty switch, fuse) ◦ Damaged coil 	<ul style="list-style-type: none"> ◦ Check control circuit voltage with multimeter. ◦ Inspect control circuit components and wiring. ◦ Replace contactor if coil is faulty.
Contactor energizes but load does not receive power	<ul style="list-style-type: none"> ◦ Worn or pitted main contacts ◦ Loose power wiring connections (L1/L2/L3 or T1/T2/T3) ◦ Overload condition on the load 	<ul style="list-style-type: none"> ◦ Inspect contacts; replace contactor if severely worn. ◦ Tighten all power terminal connections (with power off). ◦ Check load for shorts or excessive current draw.
Contactor hums loudly or chatters	<ul style="list-style-type: none"> ◦ Low control voltage ◦ Mechanical obstruction ◦ Damaged shading coil (internal) 	<ul style="list-style-type: none"> ◦ Verify control voltage is within specifications. ◦ Inspect for foreign objects preventing full contact closure. ◦ Replace contactor.
Contactor trips circuit breaker/fuse	<ul style="list-style-type: none"> ◦ Short circuit in load or wiring ◦ Contactor internal fault 	<ul style="list-style-type: none"> ◦ Isolate load and test wiring for shorts. ◦ Test contactor for internal shorts; replace if faulty.

8. WARRANTY AND SUPPORT

This ALLIANCE LAUNDRY SYSTEMS product is manufactured to high standards and is designed for reliable performance. For specific warranty information, please refer to the documentation provided with your original equipment or contact ALLIANCE LAUNDRY SYSTEMS directly.

For technical support, replacement parts, or service inquiries, please contact your authorized ALLIANCE LAUNDRY SYSTEMS dealer or visit their official website. When contacting support, please have your product model (C16) and part number (F330177P) readily available.

Important Note: The product is an OEM part. Using non-genuine parts may void the warranty of your laundry equipment and could lead to performance issues or safety hazards.