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› Cutler Hammer D40RB Powereed Relay Instruction Manual

Cutler & Hammer D40RB

Cutler Hammer D40RB Powereed Relay Instruction Manual

Model: D40RB

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Cutler Hammer D40RB Powereed Relay.

Please read this manual thoroughly before attempting any procedures with the device.

PRODUCT OVERVIEW

The Cutler Hammer D40RB is a Type R Powereed Relay designed for industrial electrical applications, specifically as a motor contactor. It features a 120VAC coil and specific AC contact ratings.

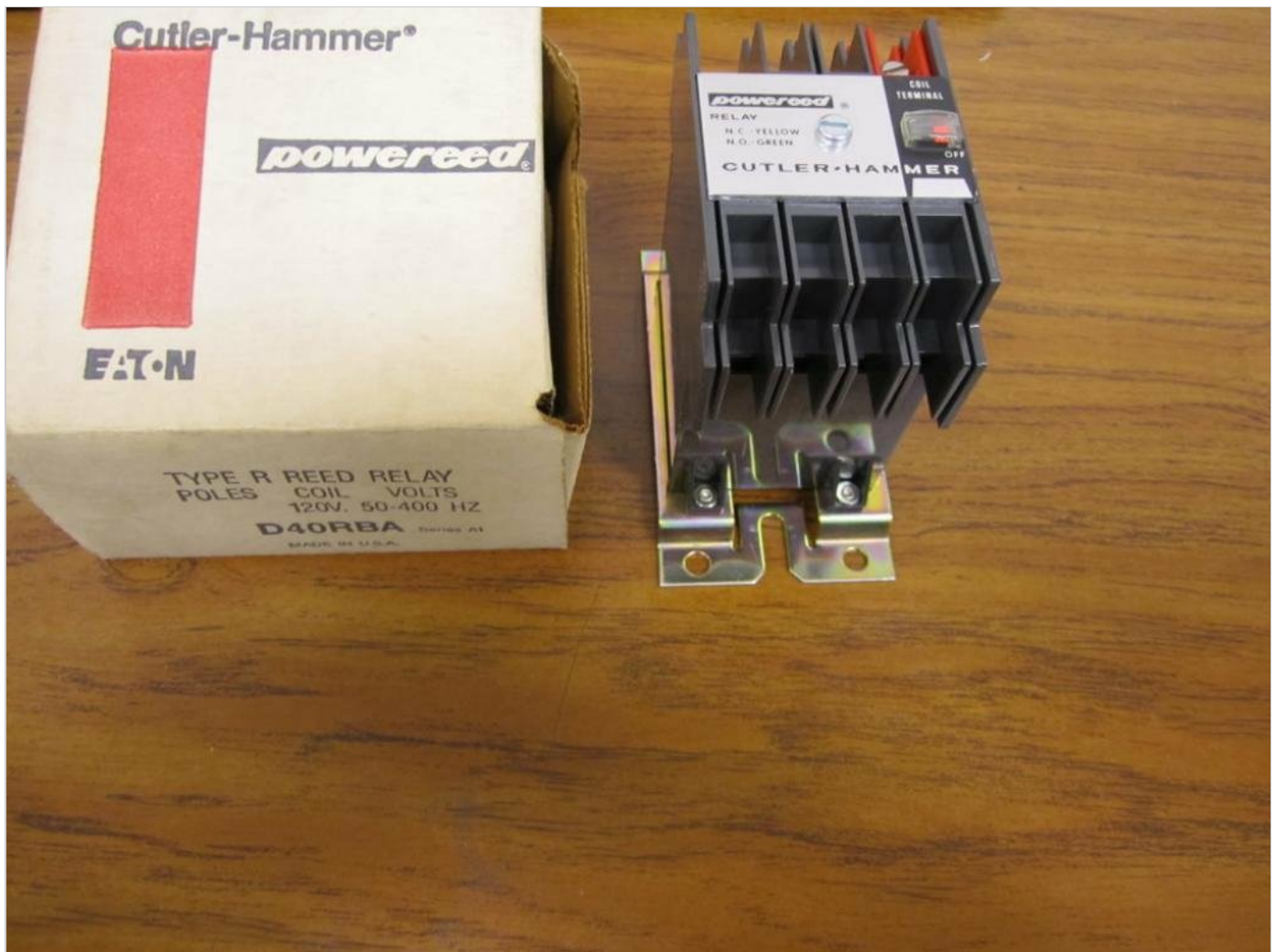


Image 1: The Cutler Hammer D40RB Poweredreed Relay shown alongside its original packaging. The relay is a black rectangular unit with metal mounting brackets, and the box indicates "Cutler-Hammer Poweredreed Relay Type R".

Key Features:

- Type R Poweredreed Relay
- 120VAC Coil (50-400Hz)
- AC Contact Ratings: Max Inrush 15A (120V), 10A (240V); Normal Break 3A (120V), 2A (240V); Continuous 5A (120V/240V)
- N.O. Pole (Green) and N.C. Pole (Yellow) configurations available (D40RPA, D40RPB)

SAFETY INFORMATION

WARNING: Disconnect power before performing any servicing or maintenance of this Poweredreed Relay.

This device operates with electrical voltages that can cause severe injury or death. Installation, operation, and maintenance should only be performed by qualified personnel.

- Always ensure power is disconnected and locked out before working on the relay.
- Follow all local and national electrical codes.
- Use appropriate personal protective equipment (PPE).

SETUP AND INSTALLATION

The D40RB Poweredreed Relay is designed for mounting in industrial control panels. Ensure adequate space and ventilation

around the unit.

Mounting:

The relay features integrated mounting brackets. Secure the unit firmly to a stable surface using appropriate fasteners.



Image 2: A close-up view of the product box label, showing "TYPE R REED RELAY", "POLES COIL VOLTS 120V. 50-400 HZ", and "D40RBA Series A1". This confirms the coil specifications.

Wiring Connections:

Refer to the wiring diagram on the unit label for correct connections. The coil terminals are clearly marked. Ensure all connections are tight and secure.

- **Coil Voltage:** 120VAC, 50-400Hz.
- **Contact Poles:** D40RPA for Normally Open (N.O.) poles (Green), D40RPB for Normally Closed (N.C.) poles (Yellow).



Image 3: Front view of the Cutler Hammer D40RB Powereed Relay, showing the "COIL TERMINAL" and "OFF" switch, along with labels for N.C. (Yellow) and N.O. (Green) poles.

OPERATING INSTRUCTIONS

The Cutler Hammer D40RB Powereed Relay operates automatically based on the applied coil voltage.

Basic Operation:

1. Ensure the relay is correctly wired and mounted according to the Setup section.
2. Apply 120VAC power to the coil terminals. The relay contacts will change state (N.O. contacts close, N.C. contacts open).
3. Remove power from the coil terminals. The relay contacts will return to their original state (N.O. contacts open, N.C. contacts close).

The relay is designed for continuous operation within its specified AC contact ratings.

MAINTENANCE

Regular inspection and cleaning can help ensure the longevity and reliable operation of your D40RB Powereed Relay.

Inspection:

- Periodically inspect the relay for any signs of physical damage, discoloration, or loose connections.
- Check for excessive dust or debris accumulation.

Cleaning:

WARNING: Disconnect all power before cleaning.

- Use a soft, dry cloth or a brush to remove dust and debris from the relay's exterior.
- Do not use liquid cleaners or solvents, as these may damage the internal components.

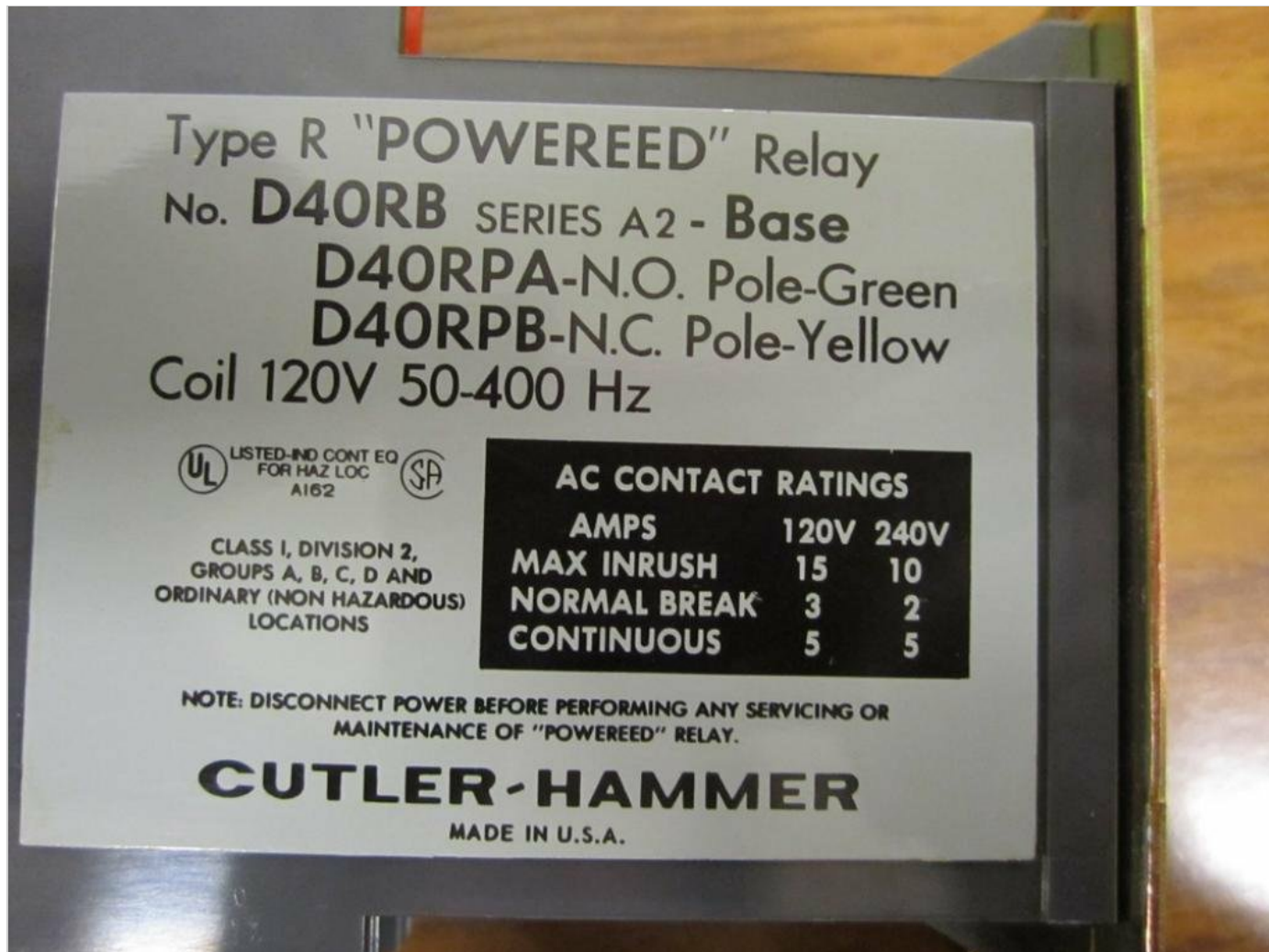


Image 4: A detailed view of the label on the Cutler Hammer D40RB Powered Relay, clearly showing "Type R 'POWERED' Relay No. D40RB SERIES A2", coil voltage, and AC contact ratings. It also includes a safety note: "NOTE: DISCONNECT POWER BEFORE PERFORMING ANY SERVICING OR MAINTENANCE OF 'POWERED' RELAY."

TROUBLESHOOTING

This section provides guidance for common issues that may arise with the D40RB Powered Relay.

Relay Not Actuating:

- **Check Power Supply:** Verify that 120VAC is being supplied to the coil terminals.
- **Check Wiring:** Ensure all coil and contact wiring is correct and secure.
- **Coil Integrity:** If power is present and wiring is correct, the coil may be faulty.

Contacts Not Switching:

- **Check Coil Actuation:** Confirm the coil is actuating (e.g., by listening for a faint click or observing any mechanical indicators if present).
- **Contact Wear:** Over time, contacts can wear out. If the coil actuates but contacts do not switch reliably, the relay may need replacement.

For issues not covered here, or if troubleshooting steps do not resolve the problem, contact a qualified electrician or technical support.

SPECIFICATIONS

Cutler Hammer D40RB Powereed Relay Specifications

Feature	Specification
Model	D40RB
Type	Powereed Relay, Type R
Coil Voltage	120VAC, 50-400Hz
Operation Mode	Automatic
Max Inrush Current (120V)	15 Amps
Max Inrush Current (240V)	10 Amps
Normal Break Current (120V)	3 Amps
Normal Break Current (240V)	2 Amps
Continuous Current (120V/240V)	5 Amps
Manufacturer	Cutler Hammer

WARRANTY INFORMATION

Specific warranty details for the Cutler Hammer D40RB Powereed Relay are typically provided at the point of purchase or through the official manufacturer's documentation. As this product is listed as "Obsolete" in the description, direct manufacturer warranty may no longer apply. Please consult your supplier for any applicable warranty terms.

TECHNICAL SUPPORT

For technical assistance or further inquiries regarding the Cutler Hammer D40RB Powereed Relay, please contact your authorized distributor or a qualified industrial electrical technician.

Given the product's obsolete status, direct manufacturer support may be limited. Resources from Eaton (who acquired Cutler-Hammer) may be available for general product lines.