Allen-Bradley 800T-JA2B5

Allen Bradley 800T-JA2B5 Contact Block User Manual

Model: 800T-JA2B5

Product Overview

The Allen Bradley 800T-JA2B5 Contact Block is an industrial electrical component designed for heavy pilot duty applications. It features a robust screw terminal connection system and is rated for a maximum voltage of 600V.

This contact block includes four screw terminals, configured as two normally open (N.O.) and two normally closed (N.C.) contacts, providing versatile control options for various industrial setups.

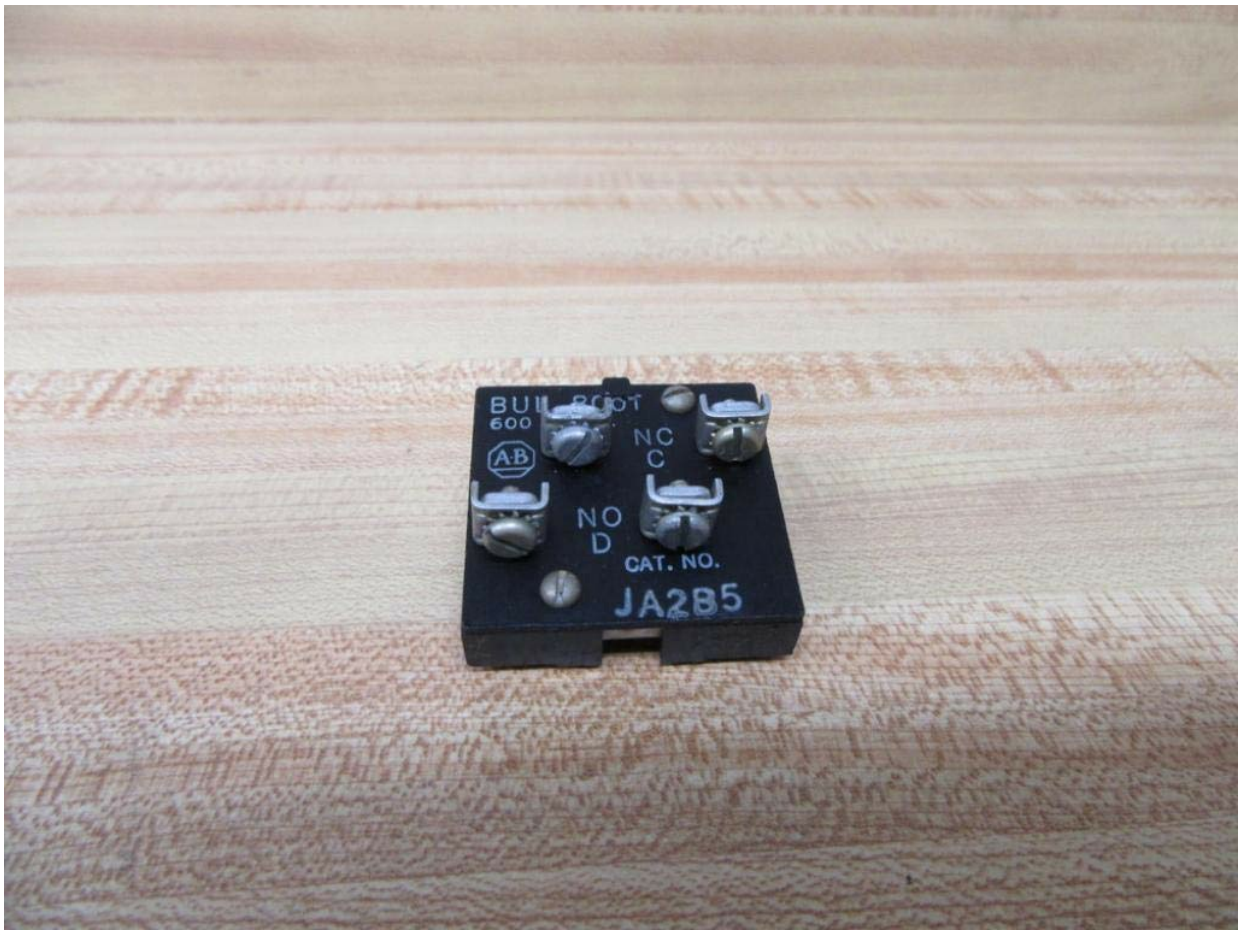

Figure 1: Front view of the Allen Bradley 800T-JA2B5 Contact Block. This image displays the top surface of the contact block, clearly showing the four screw terminals labeled 'NO D' (Normally Open) and 'NC C' (Normally Closed), along with the 'BUL. 800T 600V' and 'CAT. NO. JA2B5' markings. The robust construction and terminal layout are visible.

Specifications

Model Number	800T-JA2B5
Manufacturer	Allen Bradley
Max Voltage Rating	600 Volts
Pilot Duty	Heavy
Terminal Type	Screw Terminal
Contact Configuration	4 (2 N.O., 2 N.C.)
Product Dimensions	2 x 2 x 1 inches
Weight	1.44 ounces

Setup and Installation

Proper installation of the Allen Bradley 800T-JA2B5 Contact Block is crucial for safe and reliable operation. Always ensure power is disconnected before beginning any installation work.

1. **Safety First:** Disconnect all power to the circuit where the contact block will be installed. Verify zero voltage with appropriate testing equipment.
2. **Mounting:** Securely mount the contact block in the designated enclosure or panel. Ensure it is firmly seated to prevent movement during operation.
3. **Wiring:** Connect the appropriate wires to the screw terminals. The contact block features two Normally Open (N.O.) and two Normally Closed (N.C.) contacts. Refer to your system's wiring diagram for correct connections.
    - Use appropriate wire gauges for the intended current and voltage.
    - Ensure all wire insulation is intact and no bare wires are exposed beyond the terminal connection point.
    - Tighten screw terminals to the manufacturer's specified torque to ensure a secure electrical connection and prevent loosening due to vibration.
4. **Verification:** After wiring, visually inspect all connections for correctness and security.

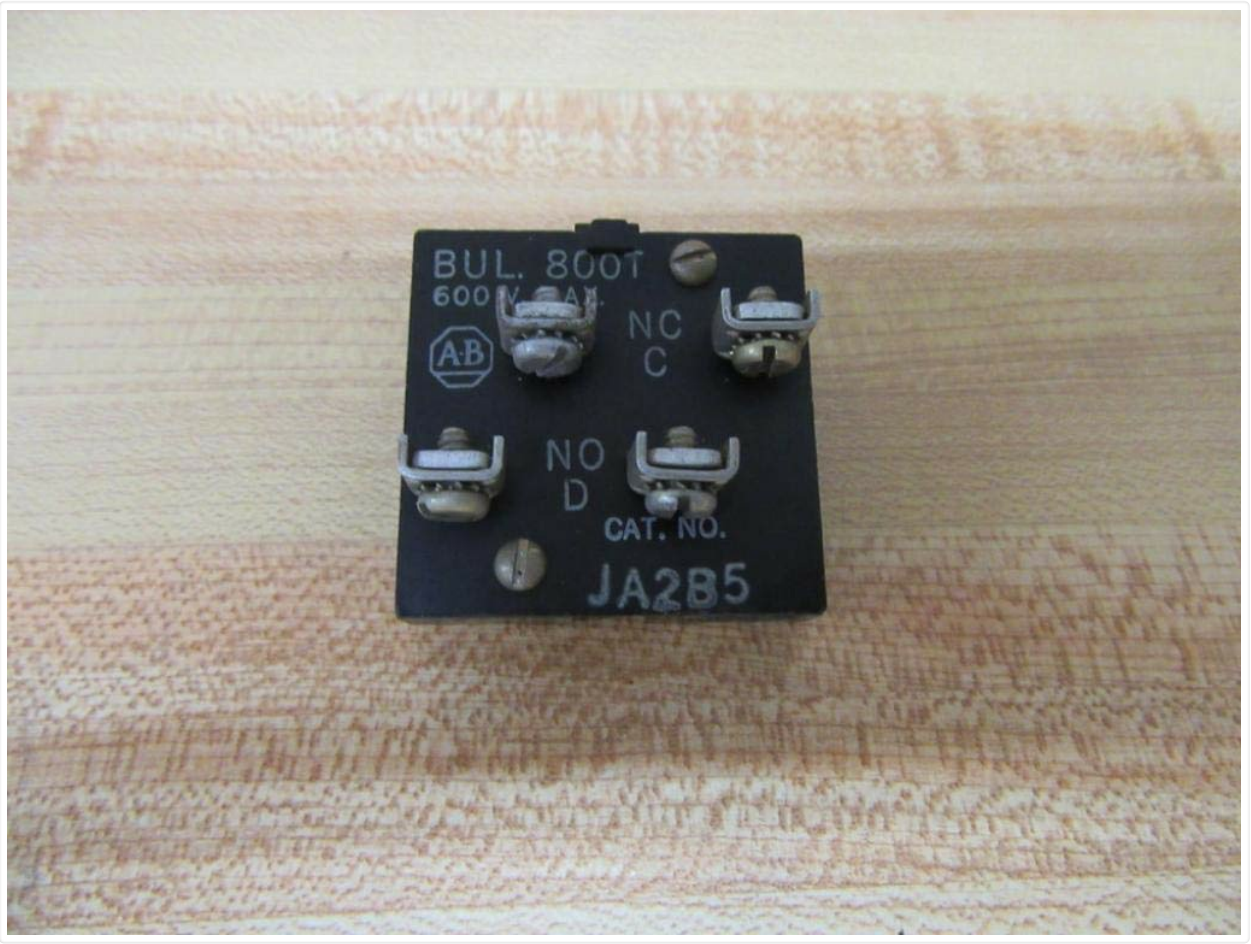

Figure 2: Top-down view of the contact block. This perspective clearly shows the layout of the four screw terminals, making it easier to identify and connect wires during installation. The labels for Normally Open (NO) and Normally Closed (NC) contacts are visible.

Operating Instructions

The Allen Bradley 800T-JA2B5 Contact Block functions as a switching component within an electrical control circuit. Its operation is dependent on the external actuator it is paired with (e.g., push button, selector switch).

- **Functionality:** When the associated actuator is operated, the internal contacts of the block change state. Normally Open (N.O.) contacts will close, and Normally Closed (N.C.) contacts will open.
- **Circuit Integration:** Ensure the contact block is integrated into the control circuit according to the system's design. Its primary role is to provide electrical signals based on the mechanical action of the actuator.
- **Rated Load:** Do not exceed the maximum voltage (600V) or current ratings for which the contact block is designed. Overloading can lead to premature failure or hazardous conditions.

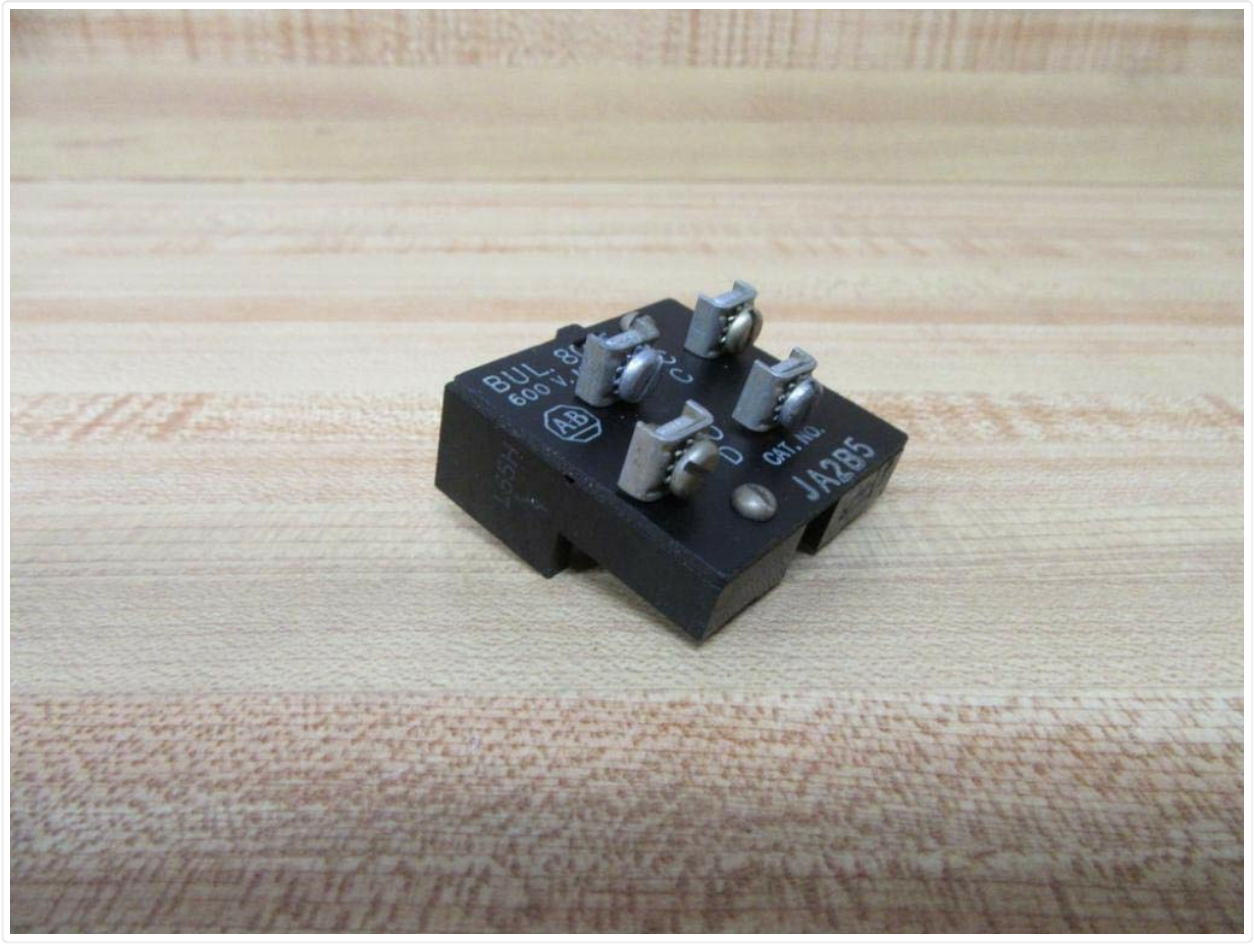

Figure 3: Angled view of the contact block. This image provides a good sense of the product's dimensions and how it might fit into an industrial panel or enclosure.

Maintenance

The Allen Bradley 800T-JA2B5 Contact Block is designed for durability and requires minimal maintenance. However, periodic inspection can help ensure long-term reliability.

- **Power Disconnection:** Always disconnect power to the circuit before performing any maintenance or

inspection.

- **Visual Inspection:** Periodically inspect the contact block for any signs of physical damage, such as cracks, discoloration, or loose components.
- **Terminal Security:** Check the tightness of all screw terminals. Vibrations in industrial environments can sometimes cause connections to loosen over time. Retighten if necessary, adhering to specified torque values.
- **Cleanliness:** Keep the contact block free from dust, dirt, and moisture. Use a dry, lint-free cloth for cleaning. Do not use solvents or abrasive cleaners.

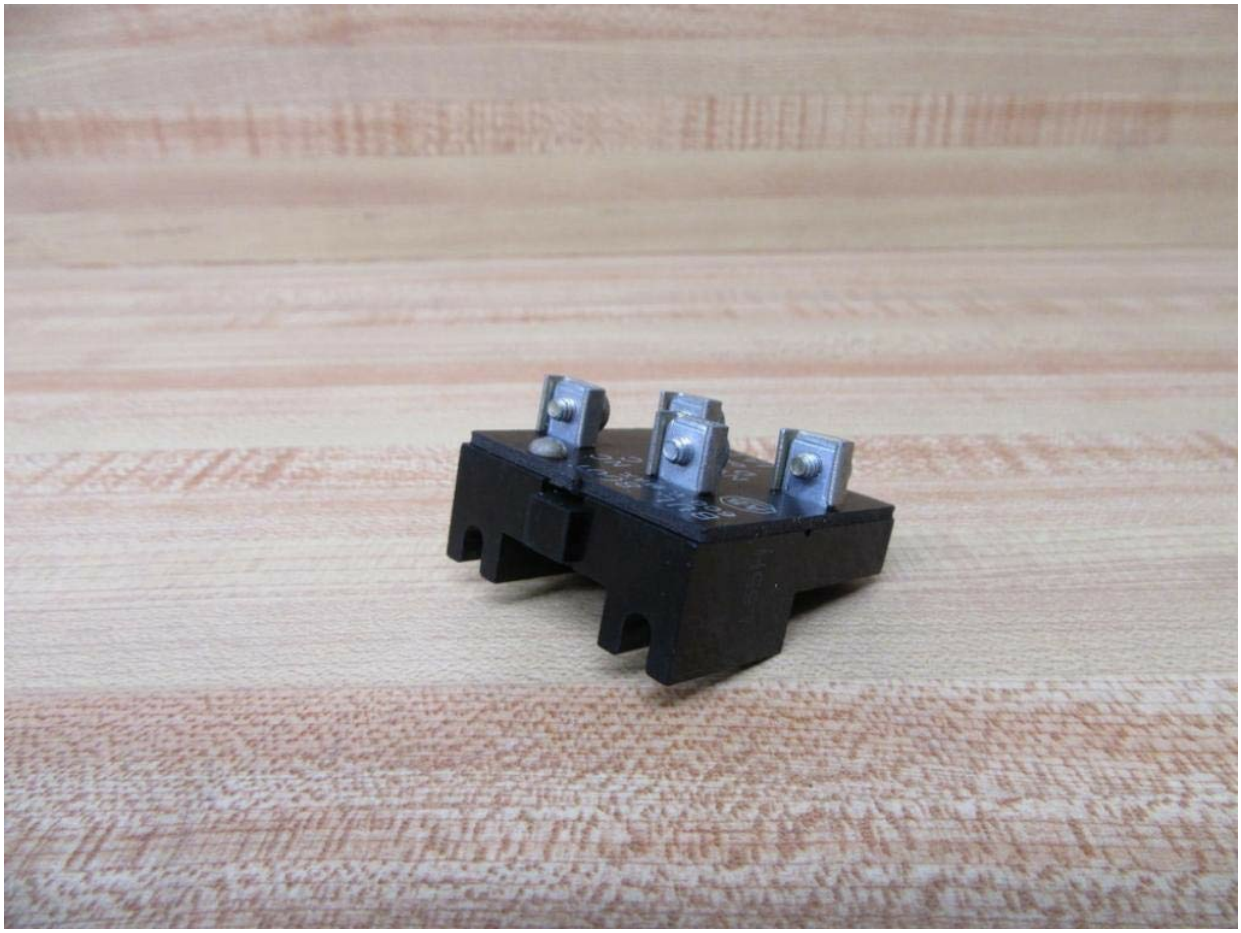

Figure 4: Side view of the contact block. This view illustrates the depth and mounting features of the unit, which are important for proper installation and maintenance access.

Troubleshooting

If the Allen Bradley 800T-JA2B5 Contact Block is not functioning as expected, consider the following common issues and solutions:

Problem	Possible Cause	Solution
Contacts not changing state	Loose wiring connection Faulty actuator Internal damage to contact block	Check and tighten all terminal screws. Test the actuator independently. Replace the contact block if internal damage is suspected.

Problem	Possible Cause	Solution
Intermittent operation	Loose wiring Vibration Contamination on contacts	Verify all connections are secure. Ensure proper mounting to minimize vibration. Inspect for debris; clean if necessary (with power off).
Overheating	Overload condition Poor connection Incorrect voltage/current	Verify the load does not exceed the contact block's ratings. Check for loose or corroded connections. Ensure correct voltage and current are applied.

If troubleshooting steps do not resolve the issue, consult a qualified electrician or contact Allen-Bradley technical support.

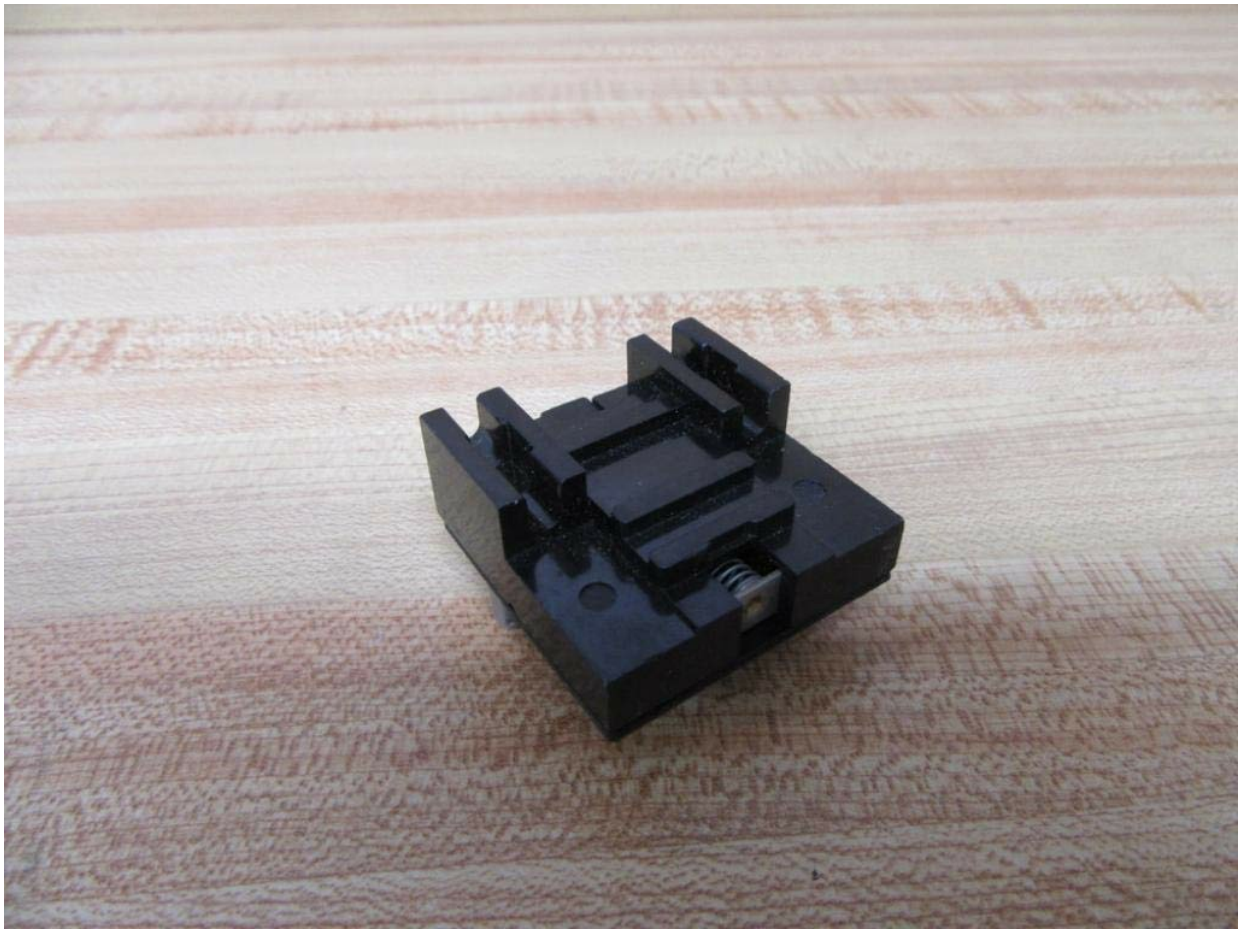

Figure 5: Bottom view of the contact block. This image displays the underside, including the mounting clips or slots that secure the block to its corresponding actuator or panel.

Warranty and Support

For information regarding warranty coverage, technical support, or replacement parts for your Allen Bradley 800T-JA2B5 Contact Block, please refer to the official Allen-Bradley website or contact their authorized distributors.

Always provide the full model number (800T-JA2B5) and any relevant serial numbers when seeking support to

ensure accurate assistance.

Manufacturer: Allen Bradley
Brand: Allen-Bradley