ABB A26-30-10

ABB A26-30-10 AC Contactor User Manual

Model: A26-30-10 | Brand: ABB

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the ABB A26-30-10 AC Contactor. Please read this manual thoroughly before using the product.
The ABB A26-30-10 is a robust AC contactor designed for controlling electric motors and other resistive, inductive, or capacitive loads. It features a coil voltage of 110-120V AC, a current rating of 40A, and is suitable for applications up to 20HP.

Key Features:

- Coil Voltage (AC): 110 - 120 V-AC
- Current: 40 A AMP
- Power: 20 HP

2. Safety Information

Always disconnect power before installing or servicing the contactor. Installation and maintenance should only be performed by qualified personnel. Failure to follow these instructions may result in serious injury or death.

- Ensure proper grounding.
- Verify voltage and current ratings match the application.
- Do not operate the contactor if it is damaged.

3. Product Overview



Figure 1: Front view of the ABB A26-30-10 AC Contactor. This image highlights the main power terminals and the auxiliary contact, along with the product's model identification.

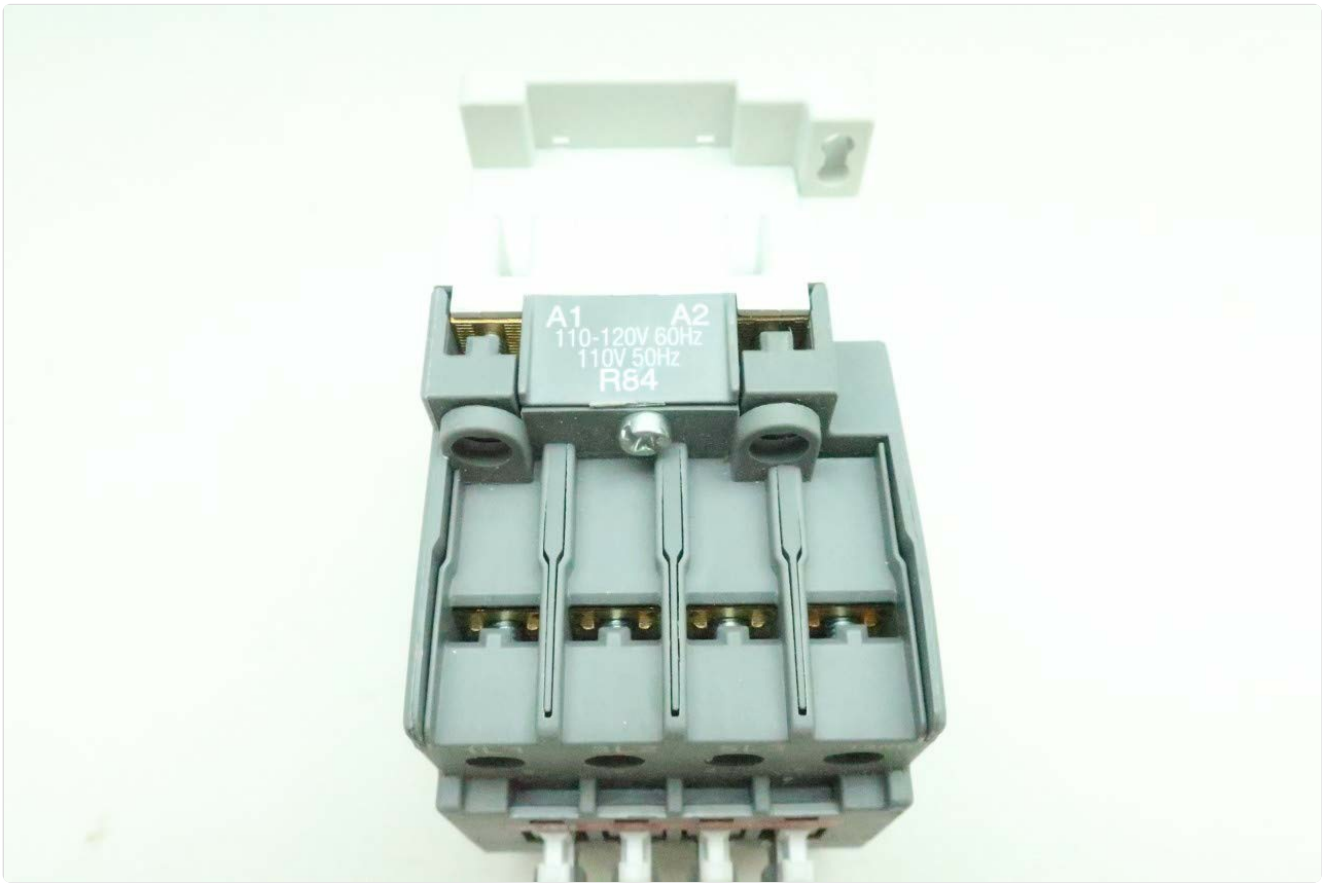


Figure 2: Top view of the contactor, detailing the coil connection points (A1, A2) and the specified operating voltages for both 50Hz and 60Hz frequencies.



Figure 3: Side view of the contactor, illustrating its physical dimensions and mounting features. Material composition details are also visible.



Figure 4: Additional side perspective of the contactor, providing a clearer view of its compact form factor and the A2 coil terminal.



Figure 5: Detailed front view, focusing on the ABB branding and the A26-30-10 model number for easy identification.

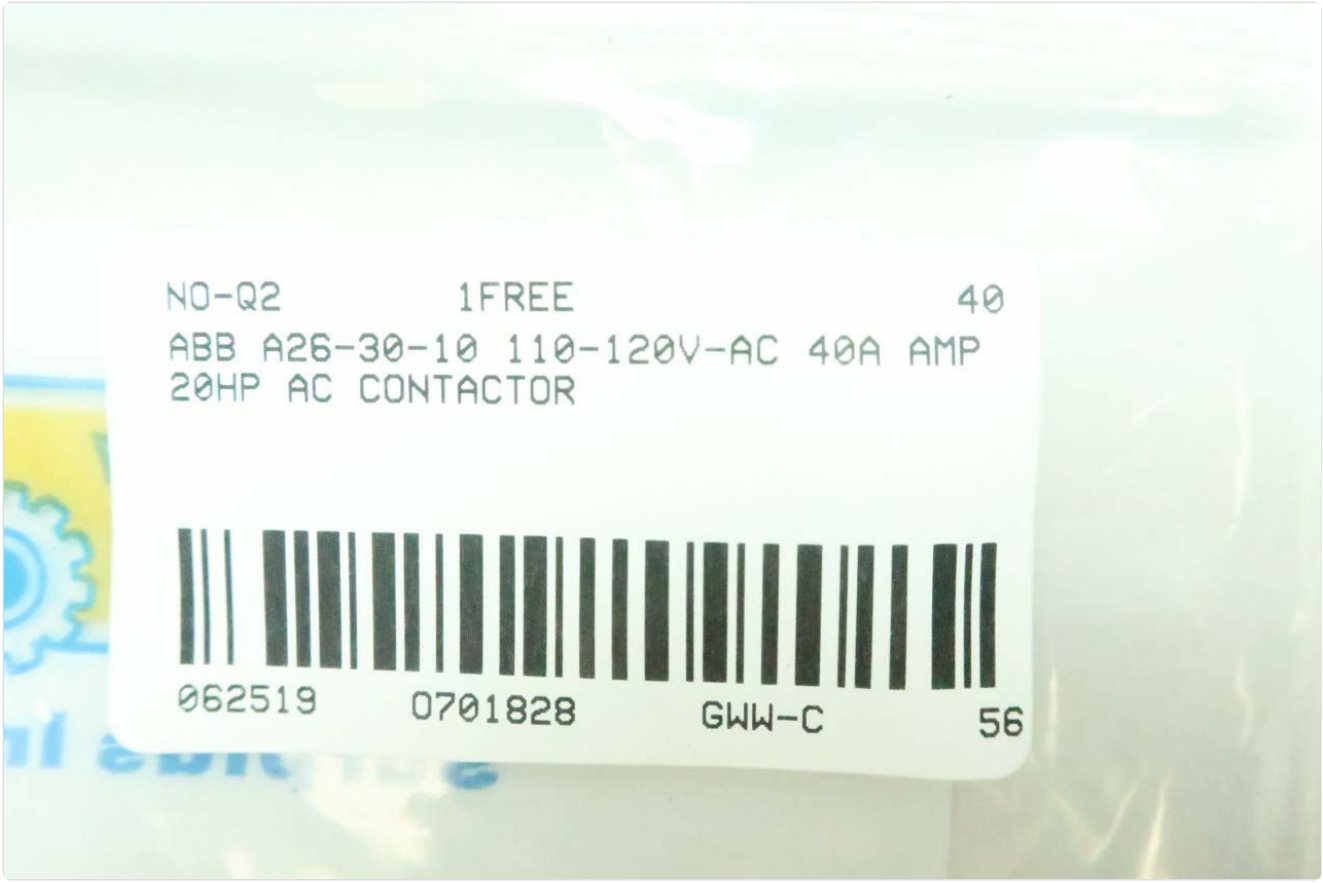


Figure 6: Product label, providing essential specifications such as part number, voltage, current, and horsepower ratings, along with a barcode for inventory management. The number "701828" is visible on the label, likely a batch or serial number.

4. Setup and Installation

The ABB A26-30-10 AC Contactor is designed for DIN rail mounting or screw mounting. Ensure the mounting surface is stable and free from vibrations.

4.1 Wiring Connections

1. **Power Circuit:** Connect the incoming power supply to terminals 1L1, 3L2, and 5L3. Connect the load to terminals 2T1, 4T2, and 6T3.
2. **Control Circuit:** Connect the control voltage (110-120V AC) to the coil terminals A1 and A2.
3. **Auxiliary Contacts:** The contactor includes a normally open (NO) auxiliary contact. Connect control signals to terminals 13NO and 14NO as required for your application.

Refer to local electrical codes and standards for proper wiring practices.

5. Operating Instructions

Once properly installed and wired, the contactor operates by applying the rated control voltage to its coil terminals (A1 and A2). When the coil is energized, the main contacts close, allowing power to flow to the connected load. When the coil is de-energized, the main contacts open, disconnecting the load.

5.1 Normal Operation

- Apply 110-120V AC to terminals A1 and A2 to energize the coil.
- The main contacts will close, supplying power to the load.
- Remove voltage from A1 and A2 to de-energize the coil and open the main contacts.

6. Maintenance

The ABB A26-30-10 AC Contactor is designed for long-term, reliable operation with minimal maintenance. However, periodic inspection is recommended to ensure optimal performance and safety.

6.1 Inspection Checklist

- **Visual Inspection:** Check for any signs of physical damage, discoloration, or overheating.
- **Terminal Connections:** Ensure all terminal screws are tight and connections are secure. Loose connections can cause overheating.
- **Contact Wear:** While not typically user-serviceable, excessive arcing or contact pitting may indicate a need for replacement.
- **Dust and Debris:** Keep the contactor free from excessive dust and debris, which can impede operation or cause insulation breakdown.

Always disconnect power before performing any inspection or maintenance.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your ABB A26-30-10 AC Contactor.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Contactor does not energize (contacts do not close)	No control voltage to coil (A1/A2) Incorrect control voltage Damaged coil Loose wiring connections	Check control circuit power supply. Verify control voltage is 110-120V AC. Test coil resistance; replace contactor if coil is open or shorted. Tighten all control wiring connections.
Contactor hums loudly or chatters	Low control voltage Mechanical obstruction Damaged shading coil (on AC contactors)	Verify control voltage is stable and within range. Inspect for foreign objects preventing full closure. Replace contactor if humming persists and voltage is correct.
Contactor overheats	Overload condition Loose power connections Frequent switching	Check load current against contactor rating; reduce load or use higher rated contactor. Tighten all power wiring connections. Consider a contactor with a higher duty cycle or reduce switching frequency.

8. Specifications

Attribute	Value
Model	A26-30-10
Brand	ABB
Coil Voltage (AC)	110 - 120 V-AC
Current Rating	40 A AMP
Power Rating	20 HP
Product Dimensions	3.75 x 3.75 x 2.25 inches
Weight	12.03 ounces
Manufacturer	ABB
Date First Available	June 27, 2019

9. Warranty and Support

Specific warranty information for the ABB A26-30-10 AC Contactor is not provided in this manual. For detailed warranty terms and conditions, please refer to the official ABB website or contact your authorized ABB distributor. For technical support, product inquiries, or service, please visit the official ABB website or contact their customer service department. You can find more information about ABB products at the ABB Store on Amazon.

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Question

Example: How do I reset this device or fix this error?

Details

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