

ABB A16-40-00

ABB A16-40-00 Power Contactor User Manual

Model: A16-40-00

Brand: ABB

PRODUCT OVERVIEW

This manual provides instructions for the safe and efficient use of the ABB A16-40-00 Power Contactor. This device is designed for controlling electrical circuits in various applications, including coffee machines, dishwashers, band machines, and vacuum packing machines.

The contactor features screw connections and operates at 230V AC. It includes 4 main contacts (4 Normally Open - 4NO) and is rated for 30 A AC1 power.

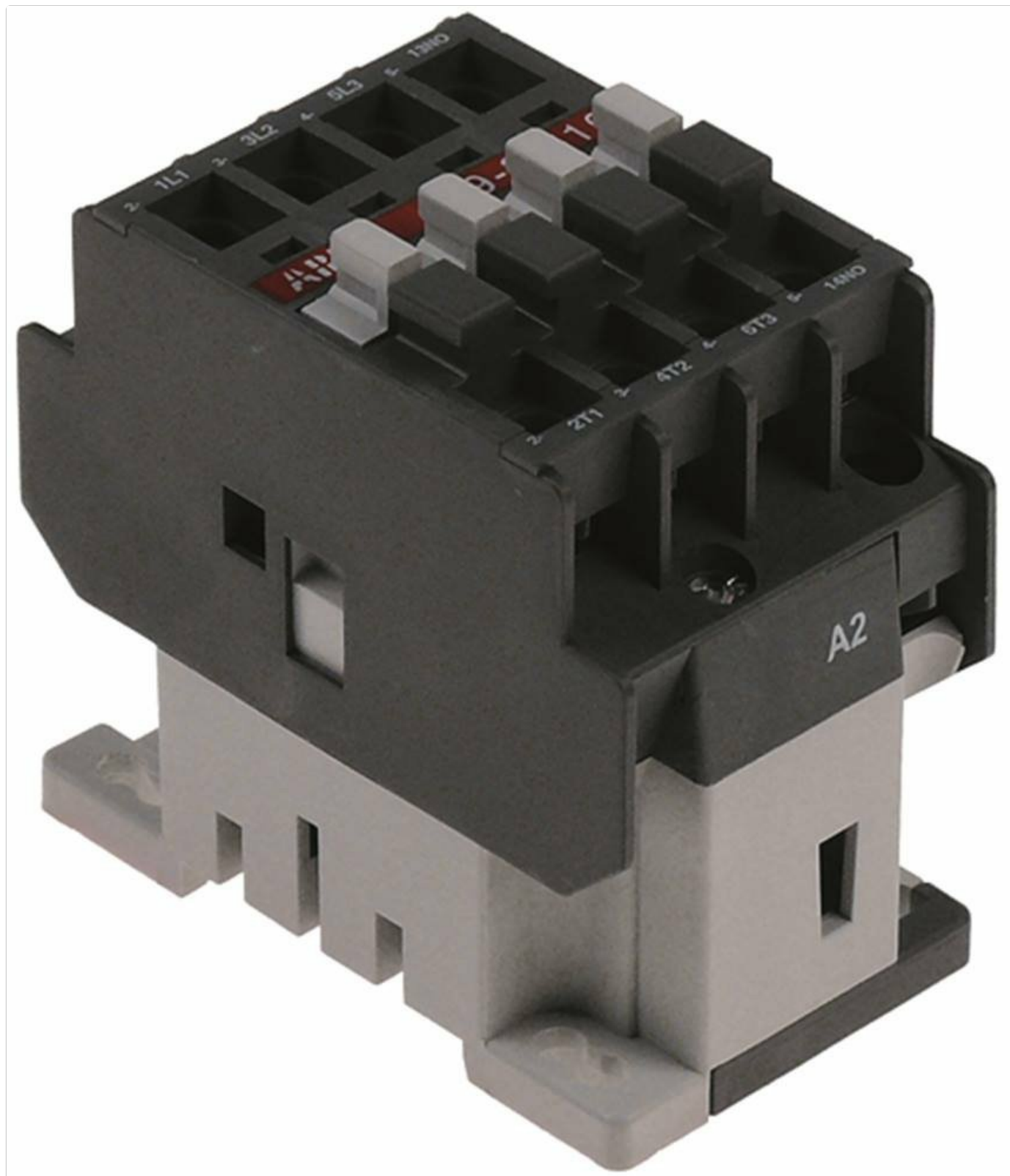


Image: Front view of the ABB A16-40-00 Power Contactor, showing its compact design and terminal block for connections.

SAFETY INFORMATION

WARNING: Installation and maintenance must be performed by qualified personnel only. Disconnect power before installation or servicing to prevent electric shock.

- Always follow local electrical codes and regulations.
- Ensure the power supply matches the contactor's voltage rating (230V AC).
- Do not operate the contactor if it is damaged.
- Protect the device from moisture and extreme temperatures.

INSTALLATION

The ABB A16-40-00 Power Contactor is designed for DIN rail mounting or screw mounting.

Mounting

1. Ensure the main power supply is disconnected.
2. Select a suitable mounting location, ensuring adequate ventilation and clearance.
3. Mount the contactor securely using either the integrated DIN rail clip or mounting screws.

Wiring

The contactor uses screw connections for wiring.

1. Identify the main power terminals (L1, L2, L3) and load terminals (T1, T2, T3).
2. Connect the incoming power supply to the main power terminals.
3. Connect the load (e.g., motor, heating element) to the load terminals.
4. Connect the control circuit wiring to the coil terminals (A1, A2). Ensure the control voltage matches the coil rating.
5. Tighten all screw connections firmly to prevent loose contacts and overheating.

Refer to the wiring diagram provided with the product packaging for specific connection details.

OPERATION

The ABB A16-40-00 Power Contactor is an electrically operated switch. When the control coil (A1-A2) is energized with the correct voltage (230V AC), the main contacts close, allowing power to flow to the connected load. When the coil is de-energized, the contacts open, disconnecting the load.

Initial Power-Up

1. After installation and wiring are complete, double-check all connections.
2. Restore power to the control circuit.
3. Activate the control signal to energize the contactor coil. Observe that the contactor pulls in and the load receives power.
4. Deactivate the control signal. Observe that the contactor releases and the load is disconnected.

This contactor is suitable for applications requiring frequent switching, such as those found in commercial kitchen equipment.

MAINTENANCE

Regular inspection and maintenance ensure the longevity and reliable operation of the contactor.

- **Periodic Inspection:** Visually inspect the contactor for any signs of damage, discoloration, or loose connections. Check for dust or debris accumulation.
- **Terminal Tightness:** Periodically re-tighten all screw terminals, especially after initial installation and during routine maintenance checks. Loose connections can cause overheating and arcing.
- **Cleaning:** Disconnect power and use a dry, soft brush or compressed air to remove dust and dirt from the contactor. Do not use liquids or solvents.
- **Contact Wear:** While internal contacts are generally maintenance-free, excessive arcing or frequent overloads can cause wear. If the contactor shows signs of inconsistent operation or excessive heat, it may require replacement.

Note: Do not attempt to repair internal components. Replace the entire unit if significant damage or malfunction occurs.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Contactors does not energize (coil not pulling in)	No control voltage; Incorrect control voltage; Open circuit in control wiring; Damaged coil.	Check control circuit power supply; Verify control voltage matches coil rating; Inspect control wiring for breaks; Replace contactor if coil is damaged.
Load does not receive power when contactor is energized	Loose main power connections; Open circuit in main power wiring; Damaged main contacts; Overload protection tripped.	Tighten main power connections; Inspect main power wiring; Replace contactor if contacts are damaged; Check and reset overload protection.
Contactors hums loudly or overheats	Incorrect coil voltage; Loose mounting; Contaminated pole faces; Excessive switching frequency.	Verify coil voltage; Ensure secure mounting; Clean pole faces (if accessible and safe); Reduce switching frequency or use a higher-rated contactor.

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

SPECIFICATIONS

- Model:** ABB A16-40-00
- Connection Type:** Screw connection
- Main Contacts:** 4 Normally Open (4NO)
- Rated Operational Current (AC1):** 30 A
- Coil Voltage:** 230V AC
- Manufacturer:** ABB (Distributed by Gastroteileshop)
- Part Number:** 4251391240223
- ASIN:** B073Z8MRTT

WARRANTY AND SUPPORT

- For warranty information and technical support, please refer to the documentation provided with your purchase or contact your supplier. Keep your purchase receipt as proof of purchase.
- Supplier:** Gastroteileshop
- ASIN:** [B073Z8MRTT](#)

This manual is for informational purposes only. ABB and Gastroteileshop are not responsible for any damages or injuries resulting from improper installation or use of this product.

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

Anonymous

Email

you@example.com

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