MOBYAT AX260-30-11

MOBYAT AX260-30-11 3-Pole Contactor Instruction Manual

Model: AX260-30-11

1. Introduction

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of the MOBYAT AX260-30-11 3-Pole Contactor. Please read this manual thoroughly before attempting any procedures to ensure proper functionality and to prevent potential hazards.

2. Product Overview

The MOBYAT AX260-30-11 is a robust 3-pole contactor designed for controlling electrical circuits, particularly in industrial applications. It features a main contact configuration of 3 normally open (NO) poles and includes one normally closed (NC) and one normally open (NO) auxiliary contact for signaling or interlocking purposes. This contactor is suitable for use with both 50Hz and 60Hz power systems and supports a wide range of control voltages from 24V to 440V.





Figure 1: Front view of the MOBYAT AX260-30-11 Contactor, showing main power terminals (1 L1, 3 L2, 5 L3, 2 T1, 4 T2, 6 T3) and the product label with electrical ratings.



Figure 2: Side view of the contactor, illustrating the mounted auxiliary contact block (CAL19-11) and its serial number.



Figure 3: Top view of the contactor, showing the robust housing and mounting points.

3. Specifications

The following table details the technical specifications of the MOBYAT AX260-30-11 Contactor:

Parameter	Value
Model	AX260-30-11
Number of Poles	3-Pole
Auxiliary Contacts	1 Normally Closed (NC) & 1 Normally Open (NO)
Rated Operational Current (AC-3)	260A
Rated Operational Current (AC-1)	400A

Parameter	Value
Rated Insulation Voltage (Ui)	1000V
Rated Impulse Withstand Voltage (Uimp)	8kV
Coil Voltage Range	24V ~ 440V AC
Frequency	50Hz / 60Hz
Thermal Current (Ith)	400A
Power Rating (AC-3, 220-240V)	80 kW
Power Rating (AC-3, 380-415V)	140 kW
Power Rating (AC-3, 660-690V)	200 kW
Power Rating (AC-3, 1000V)	220 kW
HP Rating (3-Phase, 200-208V)	75 HP
HP Rating (3-Phase, 220-240V)	100 HP
HP Rating (3-Phase, 440-480V)	200 HP
HP Rating (3-Phase, 550-600V)	250 HP
General Purpose (600V AC)	350A
Hermetic Refrigeration Compressor (600V)	FLA 300, LRA 1800
Dimensions (Package)	1.18 x 0.79 x 0.39 inches
Weight	1.76 ounces
Manufacturer	MOBYAT
Number of Pieces	1

4. Safety Information

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power before installing, servicing, or removing the contactor.
- Ensure all wiring complies with local and national electrical codes.
- Use appropriate personal protective equipment (PPE) when working with electrical systems.
- Verify that the contactor's ratings match the application requirements.
- Do not operate the contactor if it appears damaged.

5. Setup and Installation

Proper installation is crucial for the safe and reliable operation of the contactor.

5.1 Mounting

1. Select a suitable mounting location that is free from excessive vibration, moisture, and corrosive atmospheres.
2. Ensure adequate ventilation around the contactor to prevent overheating.
3. Mount the contactor securely using appropriate fasteners through the designated mounting holes.

5.2 Wiring

Before wiring, ensure all power sources are disconnected and locked out.

1. Connect the main power supply lines to terminals 1 L1, 3 L2, and 5 L3.
2. Connect the load lines to terminals 2 T1, 4 T2, and 6 T3.
3. Connect the control circuit wires to the coil terminals (A1 and A2). The specific voltage for the coil is indicated on the contactor label.
4. Utilize the auxiliary contacts (1NC & 1NO) as required for control logic, interlocking, or signaling. Refer to the wiring diagram on the contactor for terminal identification.
5. Ensure all terminal screws are tightened to the manufacturer's specified torque to prevent loose connections and arcing.





Figure 4: Top-down view of the contactor, highlighting the main power terminals and the coil connection points (A1, A2).



Figure 5: Close-up of the terminal connections, showing the screw terminals for secure wiring.

6. Operating Instructions

The MOBYAT AX260-30-11 Contactor operates by energizing its coil, which causes the main contacts to close, thereby connecting the power supply to the load. When the coil is de-energized, the contacts open, disconnecting the load.

1. After installation and verification of all wiring, apply control voltage to the coil terminals (A1 and A2).
2. The contactor will audibly click as the main contacts close.
3. To de-energize the load, remove the control voltage from the coil. The contactor will click again as the contacts open.
4. Monitor the contactor during initial operation to ensure proper functioning and absence of abnormal noise or heating.

7. Maintenance

Regular inspection and maintenance can extend the lifespan of the contactor and ensure safe operation.

7.1 Routine Checks (Perform with power disconnected)

- Inspect for any signs of physical damage, such as cracks, discoloration, or loose parts.
- Check all terminal connections for tightness. Retighten if necessary.
- Clean any dust or debris from the contactor's exterior using a dry, non-conductive cloth or compressed air.
- Verify that the moving parts operate smoothly without obstruction.

7.2 Contact Inspection (Perform with power disconnected)

While the contactor is designed for durability, excessive arcing or frequent operation under heavy loads can cause contact wear. If possible, inspect the main contacts for pitting or erosion. Severely worn contacts should prompt replacement of the contactor.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Contactor does not energize (no click)	No control voltage to coil (A1/A2) Incorrect coil voltage Damaged coil Loose wiring connection	Check control circuit power supply. Verify coil voltage matches supply. Test coil resistance; replace contactor if open. Tighten all control wiring.
Contactor energizes but load does not receive power	No main power supply Loose main power connections Damaged main contacts	Check main power supply. Tighten main power wiring (L1, L2, L3, T1, T2, T3). Inspect contacts; replace contactor if severely damaged.
Contactor hums excessively or overheats	Incorrect coil voltage Loose connections Contactor operating beyond ratings Foreign material in magnet system	Verify coil voltage. Check and tighten all connections. Ensure load current is within specifications. Inspect and clean the magnet system (power off).
Contactor fails to de-energize	Control voltage not removed Welded contacts Mechanical obstruction	Check control circuit for continuous voltage. Replace contactor. Inspect for debris or damage preventing contact opening.

9. Warranty and Support

The MOBYAT AX260-30-11 Contactor is provided without an explicit warranty. For technical support or inquiries, please contact your supplier or the manufacturer, MOBYAT.

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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.

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