

## AFITSEP AF460-30-11

# AFITSEP AF460-30-11 AC Contactor User Manual

MODEL: AF460-30-11

## 1. Introduction

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Welcome to the user manual for the AFITSEP AF460-30-11 AC Contactor. This document provides essential information for the safe and efficient installation, operation, and maintenance of your AC contactor. Please read this manual thoroughly before use and retain it for future reference.

## 2. Safety Information

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This section outlines critical safety precautions that must be observed during the installation, operation, and maintenance of the AFITSEP AF460-30-11 AC Contactor. Failure to comply with these instructions may result in personal injury, equipment damage, or electric shock.

- Installation and maintenance should only be performed by qualified personnel.
- Disconnect all power sources before performing any work on the contactor or connected equipment.
- Ensure proper grounding to prevent electric shock.
- Do not operate the contactor if it is damaged or malfunctioning.
- Adhere to all local and national electrical codes and regulations.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

## 3. Product Overview

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The AFITSEP AF460-30-11 AC Contactor is designed for reliable power control in various industrial applications, including electric power, metallurgy, and machinery. It features a long operational life, fast response time, and energy-efficient design.



Image: Front view of the AFITSEP AF460-30-11 AC Contactor, showing its compact design and terminal connections.

### Key Features:

- **Long life and high speed response:** Designed for frequent switching operations with a fast response time.
- **Energy saving and environmental protection:** Reduces energy consumption, aligning with modern efficiency standards.
- **Maintenance-free:** Requires minimal maintenance, reducing operational costs.
- **Safe and reliable:** Excellent arc extinguishing performance ensures safety and stable operation.
- **Widely used:** Applicable across various industries and scenarios.

## 4. Setup and Installation

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Follow these steps for proper installation of the AFITSEP AF460-30-11 AC Contactor.

1. **Mounting:** Securely mount the contactor in a suitable enclosure, ensuring adequate ventilation and clearance for wiring.
2. **Wiring:** Connect the main power circuit to the appropriate power terminals (L1, L2, L3 for input; T1, T2, T3 for output). Connect the control circuit to the coil terminals (A1, A2). Refer to the wiring diagram provided with your specific application.
3. **Grounding:** Ensure the contactor is properly grounded according to electrical safety standards.
4. **Verification:** Double-check all connections for tightness and correctness before applying power.

## 5. Operating Instructions

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The AFITSEP AF460-30-11 AC Contactor operates by energizing its coil to close the main contacts, allowing power to flow to the connected load.

1. **Power On:** Apply control voltage to the coil terminals (A1, A2). The contactor will energize, and the main contacts will close.
2. **Power Off:** Remove control voltage from the coil terminals. The contactor will de-energize, and the main contacts will open, interrupting power to the load.
3. **Indicator:** Observe any status indicators (if present) to confirm the contactor's state (e.g., ON/OFF).

## 6. Maintenance

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The AFITSEP AF460-30-11 AC Contactor is designed to be largely maintenance-free. However, periodic inspections are recommended to ensure optimal performance and safety.

- **Visual Inspection:** Regularly inspect the contactor for any signs of physical damage, discoloration, or loose connections.
- **Terminal Tightness:** Periodically check the tightness of all terminal screws to prevent overheating due to poor contact.
- **Cleaning:** Keep the contactor free from dust and debris. Use a dry, non-conductive cloth for cleaning. Do not use solvents.
- **Arc Chutes:** Inspect arc chutes for excessive wear or damage, especially in applications with frequent switching.
- **Replacement:** If any component shows significant wear or damage, replace the entire contactor unit.

## 7. Troubleshooting

This section provides guidance for common issues you might encounter with your AFITSEP AF460-30-11 AC Contactor.

Problem	Possible Cause	Solution
Contactor does not energize when control voltage is applied.	No control voltage; Loose wiring; Damaged coil.	Check control circuit power supply; Verify all control wiring connections; Test coil for continuity and replace if open.
Contactor hums loudly or chatters.	Insufficient control voltage; Mechanical obstruction; Damaged shading coil.	Ensure control voltage is within specified range; Check for foreign objects; Replace contactor if shading coil is damaged.
Contactor contacts overheat.	Loose connections; Overload; Damaged contacts.	Tighten all power terminal connections; Reduce load to within contactor ratings; Replace contactor if contacts are pitted or welded.
Contactor fails to de-energize.	Welded contacts; Control voltage not removed.	Replace contactor; Check control circuit for continuous voltage supply.

## 8. Specifications

The following table details the technical specifications for the AFITSEP AF460-30-11 AC Contactor.

Feature	Detail
Model Number	AF460-30-11
Brand	AFITSEP
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.1 pounds
Assembly Required	No
Number of Pieces	1

Feature	Detail
ASIN	B0F1MXD231

## 9. Warranty and Support

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For warranty information or technical support regarding your AFITSEP AF460-30-11 AC Contactor, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

For further assistance, please visit the official AFITSEP website or contact their customer service department.