Schneider Electric A9N61534

Schneider Electric Acti9 C60H-DC Miniature Circuit Breaker (MCB)

Model: A9N61534

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Schneider Electric Acti9 C60H-DC Miniature Circuit Breaker (MCB), model A9N61534. Please read this manual thoroughly before attempting any installation or operation to ensure proper use and to prevent potential hazards.

The Acti9 C60H-DC is a high-performance miniature circuit breaker designed for direct current (DC) applications, offering protection against overcurrents and short circuits in electrical installations.

2. Safety Information

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Failure to follow these instructions can result in serious injury or death.

- Always disconnect power before installing, servicing, or removing the circuit breaker.
- Ensure all wiring complies with local and national electrical codes.
- Do not operate the circuit breaker if it appears damaged.
- Use appropriate personal protective equipment (PPE) when working with electrical systems.
- Verify correct polarity for DC applications.

3. Product Overview

The Schneider Electric Acti9 C60H-DC A9N61534 is a 2-pole, 30 Ampere (A) Miniature Circuit Breaker with a C-curve tripping characteristic, designed for 6kA breaking capacity according to IEC/EN 60947-2 standards. It provides reliable protection for DC circuits.

3.1. Key Features

- Designed for direct current (DC) applications.
- Provides protection against overcurrents and short circuits.
- 2-pole configuration for enhanced safety.
- 30 Ampere current rating.
- C-curve tripping characteristic.
- 6kA breaking capacity (IEC/EN 60947-2).

3.2. Package Contents

- One (1) Schneider Electric Acti9 C60H-DC Miniature Circuit Breaker (A9N61534)

3.3. Product Diagram

Image showing the Schneider Electric Acti9 C60H-DC Miniature Circuit Breaker, model A9N61534, from a front-facing perspective, highlighting its compact design and terminal connections.

4. Setup and Installation

The Acti9 C60H-DC MCB is designed for DIN rail mounting. Ensure the mounting surface is stable and free from vibrations. All wiring must be performed by a qualified electrician.

4.1. Installation Steps

1. **Power Disconnection:** Before starting, ensure all power to the circuit is completely disconnected and locked out.
2. **Mounting:** Clip the MCB onto a standard 35mm DIN rail. Ensure it is securely seated.
3. **Wiring:** Connect the incoming DC power cables to the designated input terminals and the outgoing load cables to the output terminals. Pay close attention to polarity (+/-). Use appropriate wire gauges for the 30A rating.
4. **Tighten Connections:** Securely tighten all terminal screws to the recommended torque specifications to prevent loose connections and overheating.
5. **Verification:** Double-check all wiring for correctness and security before restoring power.

5. Operating Instructions

The Acti9 C60H-DC MCB features a simple toggle switch for operation.

- **To Turn ON:** Push the toggle switch upwards to the 'ON' position.
- **To Turn OFF:** Push the toggle switch downwards to the 'OFF' position.
- **Tripped State:** If an overcurrent or short circuit occurs, the MCB will automatically trip, moving the toggle switch to an intermediate or 'TRIP' position. To reset, first move the switch fully to the 'OFF' position, then push it upwards to 'ON'. Investigate the cause of the trip before resetting.

6. Maintenance

The Acti9 C60H-DC MCB is designed for minimal maintenance. However, periodic inspection is recommended to ensure optimal performance and safety.

- **Visual Inspection:** Regularly inspect the MCB for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the MCB with a dry, lint-free cloth. Do not use abrasive cleaners or solvents. Ensure power is disconnected before cleaning.
- **Terminal Check:** Periodically check the tightness of terminal screws, especially after initial installation and during routine maintenance.

7. Troubleshooting

If you encounter issues with your Acti9 C60H-DC MCB, consider the following common troubleshooting steps:

- **MCB Trips Frequently:** This indicates an overcurrent or short circuit condition. Disconnect all loads from the circuit and try to reset the MCB. If it holds, reconnect loads one by one to identify the faulty device or wiring. If it still trips with no load, there may be an issue with the wiring or the MCB itself.
- **MCB Does Not Reset:** Ensure the toggle switch is moved fully to the 'OFF' position before attempting to reset to 'ON'. If it still does not reset, there might be a persistent fault or internal damage to the MCB.
- **No Power to Load:** Check if the MCB is in the 'ON' position. Verify incoming power to the MCB and

outgoing connections to the load. Ensure no other protective devices (fuses, other MCBs) in the circuit have tripped.

If problems persist, consult a qualified electrician or contact Schneider Electric customer support.

8. Specifications

Specification	Value
Brand	Schneider Electric
Model	A9N61534
Current Rating	30 Amps
Circuit Breaker Type	Standard
Mounting Type	DIN Rail Mount
Number Of Poles	2
Voltage	230 Volts (DC)
Item Weight	0.24 Kilograms
Global Trade Identification Number	03606480424335