

Schneider Electric MD3604X

Schneider Electric MD3604X 60A 3P NEMA 4X Motor Disconnect Switch Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Schneider Electric MD3604X Motor Disconnect Switch. This device is designed for disconnecting power to motors and other electrical loads, ensuring safety during maintenance or emergencies. Please read this manual thoroughly before installation or use.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Only qualified personnel should install, operate, or service this equipment. Failure to follow these instructions can result in death or serious injury.

- Always disconnect power before working on the switch or connected equipment.
- Use appropriate personal protective equipment (PPE).
- Verify all connections are secure and correctly wired according to local and national electrical codes.
- Do not operate the switch if it appears damaged.
- Ensure the enclosure is properly sealed to maintain NEMA 4X rating.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package.

- Schneider Electric MD3604X Motor Disconnect Switch (Quantity: 1)
- Instruction Manual (This document)

4. SETUP AND INSTALLATION

4.1 Mounting the Disconnect Switch

The MD3604X is designed for surface mounting. Choose a location that is easily accessible for operation and maintenance, and where the NEMA 4X rating can be maintained (e.g., protected from water jets, corrosion, and dust).

1. Ensure the mounting surface is flat and capable of supporting the switch's weight.
2. Mark the drilling points using the switch's mounting holes as a template.
3. Drill appropriate holes and secure the switch firmly using suitable hardware (not included).

4.2 Wiring Connections

All wiring must comply with national and local electrical codes. Refer to the wiring diagram provided inside the switch enclosure for specific connection details.

- **Input Power:** Connect the incoming three-phase (3P) power supply to the designated input terminals.
- **Output Load:** Connect the motor or load wiring to the designated output terminals.
- **Grounding:** Ensure proper grounding of the switch enclosure and all connected equipment.
- **Torque:** Tighten all terminal screws to the specified torque values to ensure secure electrical connections and prevent overheating.



Figure 1: Schneider Electric MD3604X Motor Disconnect Switch. This image shows the compact design of the MD3604X, highlighting its robust enclosure suitable for NEMA 4X environments.

5. OPERATING INSTRUCTIONS

The MD3604X is a simple ON/OFF disconnect switch. It features a rotary handle for operation.

- **To Turn ON:** Rotate the handle to the "ON" position. This connects power to the load.
- **To Turn OFF:** Rotate the handle to the "OFF" position. This disconnects power from the load.
- **Lockout/Tagout:** The handle can be locked in the "OFF" position using a padlock (not included) to prevent accidental re-energization during maintenance, adhering to Lockout/Tagout (LOTO) procedures.

6. MAINTENANCE

Regular inspection and maintenance ensure the longevity and safe operation of the disconnect switch.

- **Periodic Inspection:** Annually inspect the switch for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** Keep the exterior of the enclosure clean. Use a damp cloth; avoid abrasive cleaners or solvents.
- **Seal Integrity:** Periodically check the integrity of the enclosure seals to ensure the NEMA 4X rating is maintained.
- **Terminal Tightness:** Re-check terminal screw tightness during scheduled maintenance, especially after initial installation and heavy use.

7. TROUBLESHOOTING

If you encounter issues with your MD3604X switch, refer to the following table. Always ensure power is disconnected before attempting any troubleshooting steps.

Problem	Possible Cause	Solution
Switch does not turn ON/OFF	Internal mechanism damage; handle obstruction.	Inspect for physical damage. Ensure handle moves freely. If damaged, replace the unit.
No power to load when ON	Loose wiring connections; upstream power issue; internal fault.	Check all wiring connections for tightness. Verify upstream power supply. If issue persists, consult a qualified electrician.

Problem	Possible Cause	Solution
Enclosure seal compromised	Wear and tear; improper installation.	Inspect gaskets and seals. Replace if damaged to maintain NEMA 4X rating.

8. SPECIFICATIONS

Feature	Detail
Model Number	MD3604X
Brand	Schneider Electric
Current Rating	60A
Poles	3P (Three-Phase)
Enclosure Rating	NEMA 4X
Wattage	19980 watts
Item Weight	1 pounds
Product Dimensions	10 x 10 x 10 inches
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Schneider Electric website or contact their customer service. Keep your purchase receipt for warranty claims.

Schneider Electric Official Website: www.se.com