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Leviton MS303

Leviton MS303 Motor Starter Switch User Manual

Model: MS303 | Brand: Leviton

INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of the Leviton MS303 Motor Starter Switch. Please read these instructions thoroughly before installation and use to ensure proper function and to prevent electrical hazards.

SAFETY INFORMATION

WARNING: Risk of Electric Shock or Fire.

- Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Disconnect power at the circuit breaker or fuse box before installing or servicing the switch.
- Use only copper conductors.
- Ensure all connections are secure and properly insulated.
- Do not exceed the specified electrical ratings (30A, 600V, 3 Phase).
- This device is intended for controlling electric motors. Do not use for other applications unless specified.

PACKAGE CONTENTS

- 1 x Leviton MS303 Motor Starter Switch
- Instruction Manual (this document)

PRODUCT OVERVIEW

The Leviton MS303 is a robust 30A, 600V, 3-phase motor starter switch designed for reliable control of electric motors. Its large toggle actuator allows for easy operation, even with gloved hands.



Figure 1: Leviton MS303 Motor Starter Switch. This image shows the front view of the black motor starter switch with its prominent toggle lever.

Key Features:

- **Current Rating:** 30 Amps
- **Operating Voltage:** 600 Volts AC
- **Phase:** 3 Phase
- **Actuator Type:** Toggle
- **Contact Type:** Normally Open
- **Connector Type:** Screw Terminals
- **Color:** Black

SETUP AND INSTALLATION

IMPORTANT: Ensure all power is disconnected at the main circuit breaker before proceeding with installation. Failure to do so can result in serious injury or death.

1. **Power Disconnection:** Locate the circuit breaker or fuse controlling the motor circuit and turn it OFF. Verify power is off using a voltage tester.

2. **Mounting:** Securely mount the MS303 switch in a suitable electrical enclosure or junction box. Ensure the mounting surface is stable and the switch is easily accessible for operation.

3. **Wiring Connections:**

- Identify the incoming power lines (L1, L2, L3 for 3-phase) and the motor load lines.
- Connect the incoming power lines to the designated input screw terminals on the switch.
- Connect the motor load lines to the designated output screw terminals on the switch.
- Ensure all wire insulation is stripped to the correct length and that wires are fully inserted into the screw terminals before tightening securely.
- Connect the ground wire to the appropriate ground terminal in the enclosure.

Refer to local electrical codes and the wiring diagram provided with your motor for specific connection details.

4. **Enclosure Closure:** Once all wiring is complete and verified, close and secure the electrical enclosure cover.

5. **Power Restoration:** Restore power at the circuit breaker.

OPERATING INSTRUCTIONS

The Leviton MS303 Motor Starter Switch features a simple toggle mechanism for controlling the power supply to a connected motor.

- **To Turn ON:** Push the toggle lever to the "ON" position. This will supply power to the connected motor.
- **To Turn OFF:** Push the toggle lever to the "OFF" position. This will disconnect power from the connected motor.

The large toggle is designed for easy manipulation, even when wearing work gloves.

MAINTENANCE

The Leviton MS303 Motor Starter Switch is designed for long-term, reliable operation with minimal maintenance.

- **Periodic Inspection:** Annually, or as required by local codes, inspect the switch for any signs of physical damage, loose connections, or overheating.
- **Cleaning:** Ensure power is OFF before cleaning. Use a dry, soft cloth to wipe the exterior of the switch. Do not use abrasive cleaners or solvents.
- **Connection Check:** If accessible and power is safely disconnected, periodically check that all screw terminal connections remain tight.

TROUBLESHOOTING

If the motor starter switch is not functioning as expected, consider the following common issues:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Motor does not start when switch is ON.	No power to the switch. Loose wiring connections. Motor fault. Circuit breaker tripped.	Check circuit breaker/fuse. Verify all wiring connections are secure (with power OFF). Inspect motor for issues. Reset circuit breaker.
Switch feels loose or damaged.	Physical damage or wear.	Replace the switch. Do not attempt to repair damaged electrical components.

If issues persist after attempting these solutions, consult a qualified electrician.

SPECIFICATIONS

Brand	Leviton
Model Number	MS303
Current Rating	30 Amps
Operating Voltage	600 Volts
Phase	3 Phase
Operation Mode	Off, Toggle
Contact Type	Normally Open
Connector Type	Screw Terminals
Actuator Type	Toggle
Color	Black
Item Dimensions (L x W x H)	2 x 2 x 4 inches
Item Weight	1 pounds
UPC	078477020326

WARRANTY INFORMATION

For detailed warranty information regarding the Leviton MS303 Motor Starter Switch, please refer to the official Leviton website or contact Leviton customer service. Warranty terms and conditions may vary.

CUSTOMER SUPPORT

If you require further assistance, technical support, or have questions not covered in this manual, please visit the official Leviton website or contact their customer support department directly. Contact information can typically be found on the manufacturer's website or product packaging.

