Leviton MS302-DSW

Leviton Manual Motor Controller Instruction Manual

Model: MS302-DSW

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Leviton 30 Amp, 600 Volt, Double-Pole, Single Phase AC Manual Motor Controller, Model MS302-DSW. This industrial-grade power switch is designed for reliable control of various motor loads, including conveyor systems, pumping machines, HVAC systems, air compressors, and other heavy manufacturing equipment. It is suitable for both single-phase and three-phase applications.

Please read this manual thoroughly before beginning any work with the device. Keep it for future reference.



Figure 1: Front view of the Leviton MS302-DSW Manual Motor Controller. The image shows the white toggle switch in the center, with "OFF" visible, and terminal screws on the sides. The top of the switch is labeled "LEVITON CAT. NO. MS302".

2. Safety Information

WARNING: To avoid fire, shock, or death; turn off power at circuit breaker or fuse and test that power is off before wiring! This device must be installed in accordance with all national and local electrical codes.

- Always disconnect power before installing or servicing the motor controller.
- Ensure proper grounding to prevent electrical shock.
- Do not exceed the specified voltage and current ratings of the device.
- Use appropriate personal protective equipment (PPE) during installation and maintenance.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

For detailed safety guidelines, refer to the National Electrical Code (NEC) and local regulations.

3. Product Features

The Leviton MS302-DSW Manual Motor Controller offers robust features for industrial applications:

- Provides safe, reliable control of a variety of motor loads; suitable for use as motor disconnect.
- Fits in standard wall box.
- Accepts back or side wiring, terminal clamps or ring terminals.
- Oversized toggle provides clear actuation feedback and long-lasting durability.
- Nickel-plated #10 triple-combination terminal screws for corrosion resistance.



Figure 2: Leviton motor controllers installed in an industrial environment, demonstrating their application in controlling heavy machinery.

4. Setup and Installation

The MS302-DSW is designed for wall mount installation and fits into a standard wall box. Professional installation by a qualified electrician is highly recommended to ensure compliance with all electrical codes and safety standards.

4.1 Wiring

The device accepts both back and side wiring, as well as terminal clamps or ring terminals. Ensure all connections are secure and properly insulated. Refer to the wiring diagram provided with the product packaging for specific connection details.

4.2 Installation Steps (General)

1. **Power Disconnection:** Before starting, ensure all power to the circuit is turned off at the main circuit breaker or fuse box. Verify power is off using a voltage tester.
2. **Mounting:** Securely mount the motor controller into a standard wall box.
3. **Wiring Connections:** Connect the electrical wires to the appropriate terminals on the motor controller. The nickel-plated #10 triple-combination terminal screws are designed for secure connections.

4. **Secure Device:** Once wired, carefully position the device into the wall box and secure it with screws.
5. **Restore Power:** After installation is complete and all connections are checked, restore power to the circuit.

4.3 Product Overview Video

For a visual guide and further understanding of Leviton Manual Motor Controllers, please watch the official overview video:



Video: Manual Motor Controllers Overview by Leviton. This video provides a general overview of the features and applications of Leviton's manual motor controllers, including the MS302-DSW model.

5. Operating Instructions

The Leviton MS302-DSW Manual Motor Controller operates with a simple toggle mechanism for manual ON/OFF switching control.

- To turn the connected motor load **ON**, push the oversized toggle switch to the "ON" position.
- To turn the connected motor load **OFF**, push the oversized toggle switch to the "OFF" position.

The robust design ensures clear actuation feedback and reliable performance in demanding environments.

6. Maintenance

The Leviton MS302-DSW Manual Motor Controller is designed for durability and requires minimal maintenance. However, periodic checks are recommended to ensure optimal performance and safety.

- **Visual Inspection:** Periodically inspect the device for any signs of physical damage, loose connections, or discoloration.
- **Cleaning:** If necessary, gently wipe the surface of the controller with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure power is off before cleaning.
- **Connection Check:** Annually, or as required by local codes, verify that all wiring connections remain tight and secure. (Ensure power is off before checking connections).

If any issues are observed, discontinue use and consult a qualified electrician for inspection and repair.

7. Troubleshooting

If you experience issues with your Leviton MS302-DSW Manual Motor Controller, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor does not turn ON	No power to the circuit; Loose wiring connection; Faulty motor.	Check circuit breaker/fuse; Verify all wiring connections are secure (with power off); Test the motor independently.

Problem	Possible Cause	Solution
Switch feels loose or sticky	Internal wear or damage; Debris accumulation.	Discontinue use; Consult a qualified electrician for inspection or replacement.
Overheating or burning smell	Overload; Loose connections; Internal fault.	Immediately turn off power; Do not use; Consult a qualified electrician.

For issues not resolved by these steps, or if you are unsure, always consult a qualified electrician.

8. Specifications

Attribute	Detail
Model Number	MS302-DSW
Brand	Leviton
Mounting Type	Wall Mount
Voltage	600 Volts
Current Rating	30 Amps
Connector Type	Screw
Contact Material	Silver Alloy
Dielectric Strength	2200 VAC
Operation Mode	Manual
Compliance	cUL
Item Weight	5.3 ounces
Product Dimensions	2.46 x 2.03 x 3.75 inches
Color	White
Item Package Quantity	1
Switch Style	Toggle Switch
Batteries Included?	No
Batteries Required?	No

9. Warranty and Support

The Leviton MS302-DSW Manual Motor Controller is backed by a**10-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical support, or further assistance, please contact Leviton Customer Service. You can find contact information on the official Leviton website or through your product's packaging.

For more information about Leviton products, visit the officialLeviton Store on Amazon.

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Question

Example: How do I reset this device or fix this error?

Details

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