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› Leviton MS402-DS Motor Starter Instruction Manual

Leviton MS402-DS



Leviton MS402-DS Motor Starter Instruction Manual

MODEL: MS402-DS

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Leviton MS402-DS 40 Amp, 600 Volt, Double-Pole, Single Phase AC Motor Starter. Designed for industrial applications, this motor starter offers reliable control for various motor loads and is suitable for use as a motor disconnect.



Figure 1: Front view of the Leviton MS402-DS Motor Starter.

2. Safety Information

WARNING: Risk of electric shock or electrocution. This product must be installed by a qualified electrician in accordance with all national and local electrical codes. Disconnect power at the circuit breaker or fuse before installing or servicing. Always use appropriate personal protective equipment (PPE).

- Verify all wiring connections are secure and correct before applying power.
- Ensure the product's voltage and amperage ratings match your application's requirements.
- Do not operate if the device appears damaged.
- This device is suitable as a motor disconnect for line-of-sight factory settings.

3. Product Features

- 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.

4. Components and Parts

The Leviton MS402-DS motor starter consists of a robust toggle switch mechanism housed within a durable frame, designed for industrial environments.



Figure 2: Rear view showing wiring terminals and product information label.

- **Toggle Switch:** Large, durable lever for ON/OFF control.
- **Mounting Frame:** Metal frame for secure installation in a wall box.
- **Terminal Screws:** Nickel-plated #10 triple-combination screws for wiring connections.
- **Insulated Body:** Durable housing protecting internal components.

5. Setup and Installation

Follow these steps for proper installation. Ensure power is OFF before beginning.

1. **Power Disconnection:** Locate the circuit breaker or fuse supplying power to the motor circuit and turn it OFF. Verify power is off using a voltage tester.
2. **Mounting:** Install the MS402-DS into a standard wall box. Secure it using the provided mounting screws.
3. **Wiring Connections:**
 - Identify the line (incoming power) and load (motor) wires.
 - Strip approximately 1/2 inch of insulation from each wire.
 - Connect the line wires to the upper terminals and the load wires to the lower terminals. The MS402-DS supports back or side wiring, and accepts terminal clamps or ring terminals.
 - Tighten terminal screws to 20 in-lbs. Use CU 60°C/75°C wire only.
4. **Secure Installation:** Carefully push the wired device into the wall box. Attach the wall plate (not included) if applicable.
5. **Power Restoration:** Once installation is complete and all connections are secure, restore power at the circuit breaker or fuse.

Your browser does not support the video tag.

Video 1: An overview of Leviton Manual Motor Controllers, demonstrating various models and applications. This video provides general information about the product line, including installation considerations and features.

6. Operating Instructions

The Leviton MS402-DS motor starter features a simple toggle mechanism for controlling motor operation.

- To turn the motor ON, push the toggle lever to the "ON" position.
- To turn the motor OFF, push the toggle lever to the "OFF" position.
- The oversized toggle provides clear tactile feedback for its current state.

7. Maintenance

The MS402-DS is designed for durability and requires minimal maintenance.

- **Regular Inspection:** Periodically inspect the device for any signs of physical damage, loose connections, or discoloration.
- **Cleaning:** If necessary, gently wipe the exterior with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure power is disconnected before cleaning.
- **Corrosion Resistance:** The nickel-plated hardware ensures resistance to corrosion, contributing to long-term reliability.

8. Troubleshooting

If you encounter issues with your Leviton MS402-DS, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not turn ON.	No power to the circuit; loose wiring; faulty motor.	Check circuit breaker/fuse. Verify all wiring connections are secure. Test the motor independently if possible.

Problem	Possible Cause	Solution
Switch feels loose or sticky.	Physical damage; internal wear.	Discontinue use immediately. Contact a qualified electrician for inspection or replacement.
Overheating or burning smell.	Overload; loose connections; incorrect wiring.	Immediately disconnect power. Do not attempt to operate. Contact a qualified electrician.

For problems not listed or if solutions do not resolve the issue, contact Leviton Technical Support.

9. Specifications

Attribute	Detail
Brand	Leviton
Model Number	MS402-DS
Amperage Capacity	40 Amps
Voltage	600 Volts
Switch Type	Double Pole
Phase	Single Phase AC
Mounting Type	Wall
Material	Nickel (for screws)
Item Weight	5.6 ounces
Product Dimensions	4.2 x 2.5 x 2.4 inches
Suitable as	Motor Disconnect

10. Warranty and Support

The Leviton MS402-DS Motor Starter is backed by a **10-Year Limited Warranty**. For warranty claims or technical assistance, please contact Leviton Customer Support.

Leviton Customer Support:

- Visit the official Leviton website for contact information and FAQs:www.leviton.com
- Refer to the product packaging for specific regional support details.

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