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> [Honeywell M7284Q1009 150 lb-in Modutrol IV Motor, 120V User Manual](#)

## Honeywell M7284Q1009

# Honeywell M7284Q1009 Modutrol IV Motor User Manual

Model: M7284Q1009

## 1. PRODUCT OVERVIEW

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The Honeywell M7284Q1009 is a 150 lb-in Modutrol IV Motor designed for industrial applications. This 120V motor features a non-spring return fail-safe mode and accepts a proportional 4 to 20 mA control signal. It is equipped with an integral spring return mechanism that brings the motor to its normal position upon power interruption, and includes two internal auxiliary switches.

Key features include:

- **Voltage:** 120V
- **Temperature Range:** -40° to 150°F
- **Fail Safe Mode:** Non-Spring Return
- **Control Signal:** Proportional 4 to 20 mA
- **Torque:** 150 lb-in
- **Auxiliary Switches:** 2 internal



Figure 1: Front view of the Honeywell M7284Q1009 Modutrol IV Motor.

## 2. IMPORTANT SAFETY INFORMATION

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**WARNING: Hazardous voltage. Can cause injury, death or equipment damage. Turn off all disconnect switches before servicing.**

Always adhere to local electrical codes and regulations. Installation and servicing should only be performed by qualified personnel. Ensure power is completely disconnected and locked out before performing any work on the motor or connected systems.



Figure 2: Back view of the motor showing the hazardous voltage warning label.

### 3. SETUP AND INSTALLATION

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Before beginning installation, ensure you have all necessary tools and components. Refer to the wiring diagrams provided with the product for correct electrical connections.

#### 3.1 Unpacking

Carefully remove the motor and any accompanying documentation from its packaging. Inspect for any signs of shipping damage.



Figure 3: Contents of the product packaging, including the motor, box, and manual.

### 3.2 Mounting

Mount the motor securely to a stable surface using appropriate fasteners. Ensure proper alignment with the driven component to prevent undue stress on the motor shaft.

### 3.3 Electrical Connections

Connect the power supply and control signal wiring according to the provided wiring diagrams. Pay close attention to voltage requirements (120V) and control signal specifications (4-20 mA proportional). The motor features internal wiring and terminal blocks for connections.



Figure 4: View of the motor's internal wiring and terminal connections.



Figure 5: Close-up of the internal label detailing electrical specifications and manufacturer information.

## 4. OPERATING INSTRUCTIONS

Once installed and wired correctly, the Modutrol IV Motor operates based on the proportional 4-20 mA control signal.

The motor will modulate its position to correspond with the input signal.

#### 4.1 Power On

After verifying all connections, restore power to the motor. The motor may perform an initial calibration cycle.

#### 4.2 Control Signal Input

Apply the 4-20 mA control signal from your control system. The motor's shaft position will adjust proportionally to this signal. The integral spring return feature ensures the motor returns to a predetermined normal position if power is interrupted.

#### 4.3 Auxiliary Switches

The two internal auxiliary switches can be wired to provide feedback or control other devices based on the motor's position. Refer to your system's design for their specific application.

### 5. MAINTENANCE

The Honeywell Modutrol IV Motor is designed for reliable operation with minimal maintenance. However, periodic checks are recommended to ensure optimal performance and longevity.

- **Visual Inspection:** Periodically inspect the motor for any signs of physical damage, loose connections, or excessive dust/debris accumulation.
- **Wiring Integrity:** Check all electrical connections for tightness and ensure insulation is intact.
- **Shaft Movement:** Ensure the motor shaft moves freely and without obstruction. Do not use a wrench on the shaft to turn it, as this can cause damage.
- **Cleaning:** Keep the motor exterior clean. Use a dry, soft cloth. Do not use solvents or abrasive cleaners.



Figure 6: Bottom view of the motor, showing the product label and warning against using a wrench on the shaft.



Figure 7: Top view of the motor, displaying the model number and other identifying information.

## 6. TROUBLESHOOTING

Before attempting any troubleshooting, ensure power is disconnected and locked out. If the issue persists after following these steps, contact a qualified service technician.

Problem	Possible Cause	Solution
Motor does not respond to control signal.	No power supply; Incorrect wiring; Faulty control signal; Internal motor fault.	Verify 120V power supply. Check all wiring connections against diagram. Test control signal (4-20 mA). If all checks pass, motor may require service.
Motor operates erratically.	Unstable control signal; Loose connections; Mechanical obstruction.	Ensure control signal is stable. Check all wiring for secure connections. Inspect for any physical obstructions preventing smooth shaft movement.
Motor makes unusual noises.	Internal mechanical issue; Overload; Improper mounting.	Disconnect power and inspect for any visible damage. Ensure motor is not overloaded. Verify secure and level mounting.

## 7. SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Model Number	M7284Q1009
Brand	Honeywell
Voltage	120 Volts
Torque	150 lb-in
Control Signal	Proportional 4 to 20 mA
Fail Safe Mode	Non-Spring Return
Auxiliary Switches	2 (Internal)
Temperature Range	-40° to 150°F
Material	Copper (Internal components, casing is likely aluminum/metal alloy)
Item Weight	7.4 Pounds
Package Dimensions	11 x 8 x 6 inches
Manufacturer	Honeywell, Inc.
Date First Available	October 11, 2012

## 8. WARRANTY AND SUPPORT

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For information regarding product warranty, please refer to the documentation included with your purchase or visit the official Honeywell website. For technical support or service inquiries, please contact Honeywell customer service.

**Honeywell Official Website:** [www.honeywell.com](http://www.honeywell.com)

Protection plans may be available for extended coverage. Please check with your retailer for details.