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## WEG 00158OT3E56-S

# WEG General Purpose Motor User Manual

MODEL: 00158OT3E56-S (1-1/2 HP, 56H FRAME)

## Introduction

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This manual provides essential instructions for the safe installation, operation, and maintenance of your WEG General Purpose Motor, Model 00158OT3E56-S. This motor is a 1-1/2 HP, 56H Frame unit designed for various industrial and commercial applications. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent damage or injury.

**Safety Warning:** Always disconnect power before performing any installation, maintenance, or troubleshooting procedures. Failure to do so can result in serious injury or death. All electrical work should be performed by qualified personnel in accordance with local and national electrical codes.



Image of the WEG 1-1/2 HP General Purpose Motor, model 00158OT3E56-S, showing its general appearance and frame.

## Installation and Setup

Proper installation is crucial for the motor's performance and longevity. Ensure the motor is mounted securely and correctly aligned with the driven equipment.

### Mounting

- Mount the motor on a rigid, flat surface capable of supporting its weight and resisting vibration.
- Ensure adequate ventilation around the motor to prevent overheating.
- Align the motor shaft precisely with the driven equipment to minimize stress on bearings and couplings.
- Secure the motor using appropriate bolts and washers, tightening them to the manufacturer's recommended torque specifications.

### Electrical Connections

All electrical connections must be made by a qualified electrician. Refer to the motor's nameplate for voltage, current, and wiring diagram information. Ensure the power supply matches the motor's requirements.

- Verify that the power supply is disconnected before making any connections.
- Connect the motor leads according to the wiring diagram provided on the motor or in its terminal box.
- Ensure proper grounding of the motor frame to prevent electrical shock.
- Protect the motor with appropriate overcurrent protection devices (fuses or circuit breakers).

## Operation

Before starting the motor, perform a final check of all connections and mounting. Ensure no obstructions are present around the motor or driven equipment.

- **Initial Start-up:** Briefly energize the motor to check for correct rotation direction. If the rotation is incorrect, disconnect power and reverse the appropriate wiring connections as per the wiring diagram.
- **Continuous Operation:** Monitor the motor during the first few hours of operation for unusual noises, excessive vibration, or overheating.
- **Stopping:** Disconnect power to the motor when operation is no longer required or for maintenance.

## Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your motor. Always disconnect power before performing any maintenance.

- **Cleaning:** Keep the motor exterior clean and free from dust, dirt, and debris. Ensure cooling fins are clear for efficient heat dissipation.
- **Lubrication:** Consult the motor's nameplate or specific documentation for lubrication requirements. Many modern motors feature sealed bearings that do not require re-lubrication. If lubrication is required, use the specified type and amount of grease or oil.
- **Inspection:** Periodically inspect the motor for loose connections, worn cables, unusual wear on couplings, and signs of corrosion.

## Troubleshooting

This section provides solutions to common issues. For problems not listed here, or if solutions do not resolve the issue, contact qualified service personnel.

Problem	Possible Cause	Solution
Motor does not start	No power supply; Incorrect wiring; Overload protection tripped; Seized bearings.	Check power supply; Verify wiring against diagram; Reset overload; Inspect bearings for free rotation.
Motor overheats	Overload; Insufficient ventilation; Incorrect voltage; Bearing friction.	Reduce load; Clear obstructions around motor; Verify correct voltage; Check bearings.
Excessive vibration	Misalignment; Loose mounting; Unbalanced driven equipment; Worn bearings.	Check and correct alignment; Tighten mounting bolts; Balance equipment; Inspect and replace bearings if necessary.

## Specifications

Attribute	Value
Brand	WEG
Model	00158OT3E56-S
Horsepower (HP)	1-1/2 HP
Frame Size	56H Frame
Speed	1760 RPM
Material	Alloy Steel
Manufacturer	WEG

## Warranty and Support

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For warranty information, technical support, or service inquiries, please contact WEG customer service or your authorized WEG distributor. Keep your purchase receipt and motor serial number available when contacting support.

You can find contact information on the official WEG website:[www.weg.net](http://www.weg.net)