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> Teco DHP0756 75 HP AC Electric Induction Motor User Manual

## Teco DHP0756

# Teco DHP0756 75 HP AC Electric Induction Motor User Manual

Model: DHP0756 | Brand: Teco

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## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Teco DHP0756 75 HP AC Electric Induction Motor. Please read this manual thoroughly before attempting to install or operate the motor. Retain this manual for future reference.

The Teco DHP0756 is a premium 75 horsepower, 1200 RPM, Open Drip Proof (ODP) motor with a 405T frame, designed for industrial applications requiring reliable and robust performance. It operates on 208/230/460 Volt, 3-phase power and features a durable cast iron construction.



*Figure 1: Overview of the Teco DHP0756 75 HP AC Electric Induction Motor. This image shows the motor's main body, cooling fins, and output shaft, highlighting its robust cast iron construction.*

## 2. SAFETY INSTRUCTIONS

**WARNING:** Failure to follow these safety instructions can result in serious injury, death, or equipment damage.

- Always disconnect power before performing any installation, maintenance, or inspection procedures.
- Ensure proper grounding of the motor and associated electrical systems.
- Installation and wiring must be performed by qualified personnel in accordance with all local and national electrical codes.

- Protect against rotating parts. Keep hands, clothing, and tools clear of the motor shaft and any connected equipment during operation.
- Do not operate the motor in environments exceeding its specified temperature or humidity ratings.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working with the motor.
- Ensure adequate ventilation to prevent overheating.

## 3. SETUP AND INSTALLATION

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### 3.1 Unpacking and Inspection

Upon receipt, carefully inspect the motor for any shipping damage. Report any damage to the carrier immediately. Verify that the model number and specifications on the motor nameplate match your order.

### 3.2 Mounting

The motor should be mounted on a rigid, level foundation capable of supporting its weight (approximately 1210 pounds) and absorbing any operational vibrations. Ensure proper alignment with the driven equipment to prevent premature bearing wear and vibration.

1. Secure the motor firmly using appropriate bolts and washers.
2. Check for proper shaft alignment using a dial indicator or laser alignment tool.
3. Ensure adequate clearance around the motor for ventilation and maintenance access.

### 3.3 Electrical Connections

Refer to the motor's nameplate for specific voltage, current, and wiring configurations. This motor is designed for 208/230/460 Volt, 3-phase operation. All electrical connections must comply with local and national electrical codes (e.g., NEC in the USA).

1. Ensure the power supply matches the motor's voltage rating.
2. Connect the motor leads to the power supply using appropriately sized conductors and protective devices (circuit breakers, fuses).
3. Verify proper grounding of the motor frame.
4. Confirm correct rotation direction before connecting to the driven load. If rotation is incorrect, swap any two of the three phase leads.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Pre-Operation Checks

- Confirm all mounting bolts are tight.
- Verify electrical connections are secure and properly insulated.
- Ensure no obstructions are present around the motor or its rotating parts.
- Check lubrication levels if applicable (refer to maintenance section).

### 4.2 Starting the Motor

With all pre-operation checks complete, apply power to the motor. Observe the motor during its initial startup for any unusual noises, vibrations, or excessive heating. If any anomalies are detected, immediately shut down the motor and investigate the cause.

## 4.3 Normal Operation

During normal operation, periodically monitor the motor's temperature, current draw, and vibration levels. The ODP (Open Drip Proof) enclosure is suitable for environments where dripping liquids or falling objects are not a significant hazard. Avoid exposing the motor to direct water spray or corrosive atmospheres.

## 5. MAINTENANCE

Regular maintenance is crucial for extending the lifespan and ensuring the reliable operation of your Teco DHP0756 motor. Always disconnect power before performing any maintenance.

### 5.1 Routine Inspection (Monthly)

- Check for excessive noise or vibration.
- Inspect the motor exterior for dirt, dust, or debris accumulation, especially around cooling fins. Clean as necessary.
- Examine electrical connections for signs of overheating or loose terminals.
- Verify mounting bolts are secure.

### 5.2 Lubrication

The motor bearings are typically pre-lubricated for a long service life. However, for continuous duty or harsh environments, periodic re-lubrication may be required. Refer to the motor's specific lubrication plate or contact Teco support for recommended grease type and re-lubrication intervals.

### 5.3 Cleaning

Keep the motor clean and free of dust, oil, and moisture. Use compressed air to blow out dust from cooling passages. Avoid using high-pressure water jets directly on the motor.

## 6. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Motor does not start	No power supply; Blown fuse/tripped breaker; Incorrect wiring; Overload condition.	Check power supply; Reset breaker/replace fuse; Verify wiring against diagram; Reduce load.
Excessive vibration	Misalignment; Loose mounting bolts; Unbalanced load; Worn bearings.	Check and correct alignment; Tighten bolts; Balance load; Inspect/replace bearings.
Overheating	Overload; Insufficient ventilation; High ambient temperature; Incorrect voltage.	Reduce load; Clear obstructions/improve ventilation; Check ambient temperature; Verify voltage.
Unusual noise	Worn bearings; Loose components; Foreign object; Electrical hum.	Inspect bearings; Tighten components; Remove foreign objects; Consult electrician for electrical issues.

## 7. SPECIFICATIONS

Key technical specifications for the Teco DHP0756 AC Electric Induction Motor:

**Model:** DHP0756

**Brand:** Teco

**Horsepower (HP):** 75 HP

**Rotational Speed (RPM):** 1200 RPM

**Enclosure Type:** ODP (Open Drip Proof)

**Frame Size:** 405T

**Voltage:** 208/230/460 Volt

**Phase:** 3 PH

**Construction Material:** Cast Iron

**Motor Type:** Premium AC Electric Induction Motor

**Item Weight:** 1210 Pounds

**ASIN:** B01MPXEPT

## 8. WARRANTY AND SUPPORT

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For specific warranty information regarding your Teco DHP0756 motor, please refer to the warranty card included with your purchase or visit the official Teco-Westinghouse website. Warranty terms typically cover defects in materials and workmanship under normal use and service.

For technical support, service, or to order replacement parts, please contact Teco-Westinghouse customer service. Have your motor model number (DHP0756) and serial number ready when contacting support.

**Manufacturer:** TECO-Westinghouse

*Note:* Protection plans may be available from third-party providers. These are separate from the manufacturer's warranty. For details on such plans, refer to the provider's documentation.