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Dayton 5K662

Dayton 1 HP Jet Pump Motor (Model 5K662)

Instruction Manual

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Dayton 1 HP Jet Pump Motor, Model 5K662. Please read this manual thoroughly before attempting to install or operate the motor. Retain this manual for future reference.
The Dayton 1 HP Jet Pump Motor is a capacitor-start motor designed for pump applications, specifically jet pumps. It features a 56J frame, 3450 Nameplate RPM, and operates on 115/230 voltage.

2. Safety Information

WARNING: Risk of electric shock, fire, or injury. Installation and servicing must be performed by qualified personnel only. Disconnect power before servicing.

- Always disconnect power to the motor before performing any installation, maintenance, or troubleshooting.
- Ensure all electrical connections comply with local and national electrical codes.
- The motor must be properly grounded to prevent electric shock.
- Do not operate the motor in wet conditions or expose it to rain unless specifically designed for such environments. This motor features an Open Dripproof enclosure.
- Keep hands, hair, and clothing clear of moving parts during operation.
- Ensure adequate ventilation around the motor to prevent overheating.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves during installation and maintenance.

3. Product Overview

The Dayton 1 HP Jet Pump Motor (Model 5K662) is engineered for reliable performance in jet pump applications. Key features include:

- **Motor Type:** Capacitor-Start for high starting torque.
- **Enclosure:** Open Dripproof (ODP) design, suitable for environments where dripping liquids are not directly falling on the motor.
- **Frame:** 56J frame for standardized mounting.
- **Rotation:** CCWSE (Counter-Clockwise Shaft End).

- **Bearings:** Ball bearings for durability and smooth operation.
- **Thermal Protection:** Auto reset thermal protection to prevent motor damage from overheating.



Figure 1: Dayton 1 HP Jet Pump Motor. This image shows the general appearance of the motor, highlighting its compact design and typical mounting configuration.

4. Setup and Installation

4.1 Unpacking and Inspection

Carefully remove the motor from its packaging. Inspect the motor for any signs of shipping damage. Report any damage to your supplier immediately. Ensure all components listed in the packing slip are present.

4.2 Mounting

The motor can be mounted in a Vertical (Shaft Down) or Horizontal position. Ensure the mounting surface is flat, rigid, and capable of supporting the motor's weight. Secure the motor using appropriate fasteners through the 56J frame mounting holes.

- For vertical mounting (shaft down), utilize the included dripcover kit to protect the motor from dripping liquids.
- Ensure proper alignment of the motor shaft (5/8" diameter, 2-3/8" length, threaded type) with the pump impeller to prevent excessive vibration and premature bearing wear.

4.3 Electrical Connections

CAUTION: Electrical wiring should only be performed by a qualified electrician in accordance with all applicable electrical codes.

- The motor is designed for 115/230 Voltage, Single Phase (1 Hz: 60). Verify the power supply matches the motor's requirements.
- Refer to the motor's wiring diagram (typically found on the motor nameplate or inside the terminal box cover) for correct connections.
- Connect the power supply wires to the motor terminals. Ensure all connections are tight and secure.
- Properly ground the motor frame to an earth ground using a dedicated grounding conductor.
- Install appropriate overcurrent protection (circuit breaker or fuse) as required by local codes and the motor's Full Load Amps (12A at 115V, 6A at 230V).

5. Operating Instructions

5.1 Initial Startup

Before starting the motor for the first time, double-check all electrical connections and mounting security. Ensure the pump is primed according to its manufacturer's instructions.

- Turn on the power supply to the motor.
- Observe the motor for any unusual noises, vibrations, or overheating.
- Confirm the pump is operating correctly and water flow is established.
- If any issues are detected, immediately shut off power and refer to the Troubleshooting section.

5.2 Normal Operation

During normal operation, the motor should run smoothly with minimal noise and vibration. The motor's thermal protection will automatically shut off the motor if it overheats, preventing damage. If this occurs, allow the motor to cool down before attempting to restart, and investigate the cause of overheating.

6. Maintenance

Regular maintenance ensures the longevity and reliable performance of your motor.

- **Cleaning:** Periodically clean the exterior of the motor to remove dust, dirt, and debris. Ensure the ventilation openings are clear to allow for proper airflow.
- **Inspection:** Regularly inspect the motor for any signs of wear, damage, or loose connections. Check for unusual noises or vibrations.
- **Bearings:** This motor uses ball bearings, which are typically sealed and require no lubrication under normal operating conditions. If unusual bearing noise is detected, consult a qualified service technician.
- **Dripcover:** If vertically mounted, ensure the dripcover is securely in place and free of damage.

7. Troubleshooting

Before performing any troubleshooting, ensure the power supply to the motor is disconnected.

Problem	Possible Cause	Solution
Motor does not start	No power supply Thermal overload tripped Incorrect wiring Seized pump/motor	Check circuit breaker/fuse. Allow motor to cool; check for cause of overload. Verify wiring against diagram. Inspect pump/motor for obstructions.
Motor overheats	Insufficient ventilation Overload condition Low voltage	Clear obstructions around motor. Reduce load on pump; check for pump issues. Verify supply voltage.
Excessive noise or vibration	Improper mounting Misalignment with pump Worn bearings	Secure motor mounting. Realign motor and pump. Contact service technician.

If the problem persists after attempting these solutions, contact a qualified service technician.

8. Specifications

Specification	Value
Item	Jet Pump Motor
Motor Application	Pumps
Motor Sub Application	Jet Pumps
Motor Type	Capacitor-Start
Enclosure	Open Dripproof (ODP)

Specification	Value
HP	1
Nameplate RPM	3450
Frame	56J
Rotation	CCWSE
Voltage	115/230V
Full Load Amps	12A (115V) / 6A (230V)
Phase	1
Hz	60
Mounting	Face, Vertical (Shaft Down) or Horizontal
Bearings	Ball
Thermal Protection	Auto
Service Factor	1.40
Max. Ambient Temp.	40°C
Shaft Dia.	5/8"
Shaft Length	2-3/8"
Shaft Type	Threaded
Body Dia.	5.625"
Insulation Class	B
RPM Range	3001-3600
Nominal Efficiency	75.6%
Standards	UL Recognized (E47479), CSA Certified (701848 and 225293)
Material	Copper

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact your supplier. Keep your purchase receipt as proof of purchase.

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