

UNI-LIFT®

Screw Jacks & Lifting Systems

Instruction Sheet

UM Series UNI-LIFT® NEMA C-Face Electric Motors

L3000 Rev. C 01/20

1.0 IMPORTANT RECEIVING INSTRUCTIONS

Visually inspect all components for shipping damage. Shipping damage is not covered by warranty. If shipping damage is found, notify carrier at once. The carrier is responsible for all repair and replacement costs resulting from damage in shipment.

2.0 SAFETY



WARNING: Lockout power to electric motor before beginning installation procedures or before performing any adjustments, maintenance or repairs. Be certain that the motor cannot be automatically started. Failure to observe these precautions may result in serious personal injury or death!

- Follow appropriate safety precautions to avoid personal injury or property damage during motor installation and operation. UNI-LIFT® cannot be responsible for damage or injury resulting from unsafe product use, lack of maintenance or incorrect product and/or system operation.
- The UM Series motor does not contain a brake and is not a locking or load holding device. Contact UNI-LIFT® if an integral motor brake is required for your application.
- The UM Series motor is not explosion proof, and must not be used in environments which require an explosion proof motor. If needed, an explosion proof motor can be special ordered from UNI-LIFT®.
- Be sure that motor is wired for proper voltage. See motor nameplate for wiring instructions.
- Stay clear of moving and rotating parts driven by the motor. Install guards as required (See additional information in Section 3.0).
- Contact UNI-LIFT® before incorporating UNI-LIFT® products into a man lift or other people moving device (special design requirements apply).

3.0 INSTALLATION

- The motor is manufactured by an UNI-LIFT® approved supplier. Manufacturer's instructions may be packed inside the shipping carton. If present, read and follow these instructions during installation procedures.
- The motor must be properly sized for the UNI-LIFT® screw jack model being used. Be sure that the motor is specified in accordance with the stated requirements and precautions contained in the *UNI-LIFT® Screw Jack Catalog #502*.
- Be certain that the motor coupling (if used) is properly installed and that the coupling set screws are tight.
- Check that the motor is securely mounted and properly aligned. Be sure mounting bolts are tight.
- Install limit switches (sold separately) as required.

IMPORTANT: UNI-LIFT® recommends the use of limit switches or other appropriate controls to stop the motor when the screw jack has reached its fully extended or retracted position. The use of solid mechanical stops alone is not recommended. Their continued use can cause severe damage to the UNI-LIFT® screw



jack and other components in the system. Limit switches are available from UNI-LIFT® as accessories.

- Be certain that the motor is properly wired and grounded in accordance with all applicable codes and regulations. Allow only trained and qualified electricians to wire and install the motor, limit switches and other related electrical equipment.
- Comply with and adhere to all applicable safety codes for your area, such as: building codes, elevator codes, AISC Steel Construction specifications, and applicable regulations and standards (including OSHA Title 29, Chapter 1910-219 and ANSI B15.1). **Note:** Applicable safety codes, regulations and standards will vary depending on country and local requirements.
- Test for proper operation before placing the UNI-LIFT® system into service. Check for any indications of misalignment, binding or loose components. Verify proper shaft rotation.
- Contact UNI-LIFT® or your UNI-LIFT® distributor there are any questions or concerns regarding installation of the motor or any related equipment.

4.0 MAINTENANCE

- Permanently lubricated motors will not require additional lubrication under normal conditions. If the motor is equipped with grease fittings, perform lubrication in accordance with the motor manufacturer's recommendations.
- Keep the motor clean. Periodically wipe it down to remove any loose dirt or grease. Remove any dust or dirt from motor fan vents (if present).
- Periodically check the motor mounting bolts for tightness.
- If problems such as excessive heat or unusual noises are noticed, stop operation immediately. Determine the cause(s) of the problem and take appropriate corrective action(s) before resuming operation.
- Do not attempt to disassemble the motor. Disassembly, modification or tampering will void warranty. Inspection and repairs should be performed only by an authorized manufacturer's service center.

5.0 WARRANTY

- Electric motors are covered by the motor manufacturer's standard warranty (UNI-LIFT® warranty is NOT applicable).