



## INSTALLATION OF TYPE 201 CONTROLLERS

**SCOPE & INTRODUCTION** This bulletin outlines our recommendations on unpacking and storage, handling, mechanical installation, electrical connections, check-out, and mounting accessory parts, for the type 201 controllers. These controllers are for control of 2300-4160-volt motors or transformers. These controllers are for indoor or outdoor locations.

**UNPACKING AND STORAGE** Open the shipping cases for accessory items upon delivery and unpack carefully. Inspect all packages for possible damage in transit. Report damage in transit to the delivering carrier. If the equipment is not to be placed in service immediately, place a close-fitting cover over it and store in a clean place protected from dust and moisture. If stored outdoors, fill the tanks with oil immediately and connect heaters.

**HANDLING** Controllers may be handled by fork lift truck or by overhead method. Don't alter the original boxing and/or pallet or unbolt the support structure, unless you will use only overhead handling methods. Use handling equipment rated for at least 150% of the approximate weight shown on the outline drawing. Before using a fork lift truck, make sure your truck has proper rating considering the distance to the center of the load. When handling with overhead equipment, attach hooks to lifting angle or to support structure.

**MECHANICAL INSTALLATION** Refer to outline drawing for mechanical arrangement. Set in place with crane. Be sure to secure to your crane, before you loosen the bolts holding the support structure to shipping skid. Use the bolt washers from those bolts on your foundation bolts.

**ELECTRICAL CONNECTIONS** Refer to wiring diagram or diagrams for required external connections. Locate control wiring in plastic wiring ducts provided on walls of cabinet. Control connections at control-terminal block may be made with terminal-ended or looped wires, No. 8 and smaller. Use 3/8" wide or narrower ring or spade terminal for No. 10 stud.

**CHECK-OUT** Before checking-out controllers or remote-control connections, refer to wiring diagram. If you use a temporary, separate 115-volt source for control power, be sure to disconnect and ground the control-transformer secondary leads. Also remove the intentional ground from the normal control circuit (or connect to grounded side of temporary source). These two temporary wiring changes may be made conveniently at the control terminal block.

**MOUNTING ACCESSORIES** Before energizing or placing in service, FILL CONTACTOR TANK WITH OIL to level-marker on inside of tank. Mount in each controller any parts or accessories which may have been shipped separately, such as fuses or bustie parts. Store the Tanklifter Crank and the Wiring Diagram/Instructions Envelope in the toolholder on the door. On single units, remove the Lifting Angle and install Lifting-Hole Covers (usually shipped in toolholder).