

Medium-Duty Gear-Reduced Hoist Operator



PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Hoist-type door operator for small rolling doors, shutters, or grilles, and industrial sectional doors with high or vertical lift.

1.2 RELATED SECTIONS

- A. Section 06100 – Rough Carpentry: Installation and requirements for blocking and nailers.
- B. Section 16050 – Basic Electrical Materials and Methods: Installation and requirements for electrical connections.

1.3 REFERENCES

- A. National Electrical Manufacturers Association (NEMA): NEMA ICS 6 - Industrial Control and Systems: Enclosures.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation Methods.
 - 4. Cleaning Methods.
- C. Shop Drawings: Submit Shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation.
- B. Schedule delivery of door operator so that spaces are sufficiently complete that door operators can be installed immediately upon delivery.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 WARRANTY

- A. Manufacturer's standard limited lifetime warranty against material and manufacturing defects.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: The Chamberlain Group, Inc.; 845 Larch Avenue, Elmhurst, IL 60126-1196. ASD. Tel: (800) 282-6225. Fax: (630) 516-8412. www.chamberlain.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 HOIST DOOR OPERATOR

- A. Medium-Duty Gear-Reduced Operator with emergency chain hoist and electric interlock. High-starting torque 1/2 HP motor capable of driving the door at a speed of approximately 8 inches (203 mm) to 9 inches (229 mm) per second with a maximum capacity of 12 cycles per Hour; Model MGH; Chamberlain, Elmhurst, IL.
 - 1. Electric Operator: Model MGH medium-duty assembly, with electric motor and factory-wired motor controls, emergency manual chain hoist mechanism, 3-button OPEN/CLOSE/STOP control station, conduit and wiring from control station to motor, and accessories required for proper operation;
 - a. Primary Speed Reduction: Wormgear-in-oil-bath reducer; operator equipped with floor level

disconnect and output and door driven sprocket; operator shall be handed as appropriate for application.

- b. Limit Switches: Fully adjustable, driven linear-type switch mechanism synchronizing operator with door. Low friction nylon limit nuts fitted on threaded steel shaft that rotates on oil-tight self-lubricating bronze bushings. Motor shall be removable without affecting limit switch settings.
- c. Electric Motor: High-starting torque, limited duty cycle, industrial-type protected against overload rated for a maximum capacity of 12 cycles per hour with internal automatic reset thermal overload device to protect against overload.
 - 1) Motor Specification (choose one):
 - (a) 115V-60Hz-1Phase; 1/2 or 3/4
 - d. Control and Motor Drive: 24V NEC Class 2 circuit with 20VA transformer
 - e. 3-Button Control Station: 3-button station providing OPEN/CLOSE/STOP shall be NEMA Type 1 with maintenance alert indicator to signal intervals for routine door and operator maintenance.
- 2. Door Drive: Operator shall be equipped with an electrically interlocked, floor level disconnect and a chain hoist for manual operation.
 - a. Roller Chain and Sprocket: 41B32 door sprocket and #41 drive chain, for use on rolling doors, shutters and grilles
 - b. Roller Chain and Sprockets: 41B20 door sprocket and #41 drive chain, for use on sectional doors
- 3. Optional Operator Accessories:
 - a. Self-Monitoring Safety Operation Application: CPS Industrial Duty Self-Monitoring Sensor
 - b. Self-Monitoring Safety Operation Application: CPS-N4 Industrial Duty, NEMA 4 Rated Self-Monitoring Sensor

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the Methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

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