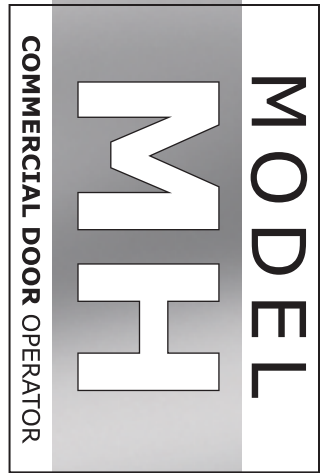


Medium-Duty Door Operator Specifications



PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Hoist-type door operators for rolling doors, shutters, and grilles.

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 Operator: Adjustable friction clutch, solenoid brake, and emergency chain Hoist with electric interlock; Model MH; Chamberlain, Elmhurst, IL.
 - 1. Electric Operator: Model MH medium-duty assembly, with electric motor and factory-prewired motor controls, emergency manual chain hoist mechanism, positive locking mechanical brake, 3-button OPEN/CLOSE/STOP control station, conduit and wiring from control station to motor, and accessories required for proper operation; door at a speed of approximately 8 inches (203 mm) to 9 inches (229 mm) per second.
 - a. Primary Speed Reduction: Heavy-duty 4L V-belt and #41 chain and sprocket with sprocket reduced secondary. Operator equipped with adjustable friction clutch and floor level disconnect; output and door driven sprocket capable of mounting on either side of door.
 - 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, (choose one) 1/2 horsepower, 115 volts, 1 phase motor or 1/2 horsepower, 230 volts, 3 phase motor rated for maximum capacity of 12 cycles per hour with an internal automatic reset thermal overload device to protect against overload.
- 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.

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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