

High Cycle, Industrial-Duty Trolley Operator Specifications



PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Apartment House door operators.

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 APARTMENT HOUSE DOOR OPERATOR

- A. High-Traffic Operator: Heavy-duty with built-in electronic reversing device, heavy-duty track, and keyed trolley assembly; Model HCT; Chamberlain, Elmhurst, IL.
 - 1. Electrical Operator: Model HCT industrial-duty assembly, with electric motor and factory prewired motor controls, internal auxiliary reversal circuit, 3-button OPEN/CLOSE/STOP control station, conduit and wiring from control to motor, and accessories required for proper operation.
 - 2. Electric Motor: High-starting torque, continuous-duty, industrial-type protected against overload by current sensing or thermal overload device.
 - 3. Motor Starter, Controls, Enclosures: 115V motor, UL approved microprocessor solid-state. Motor control device shall be enclosed in NEMA 1 enclosure integral with operator. Control enclosures shall conform to ANSI/NEMA ICS 6. A NEMA Type 1 with OPEN/CLOSE/STOP control station.
- a. Radio Receiver: LiftMaster 312HM on-board, single-channel receiver with standard external antenna.

Receiver shall be equipped to accept Security+ Rolling Code Technology remote transmitters and Trinary Dip Switch remote transmitters. Receiver memory shall accept up to 23 Security+ remote transmitters or an unlimited number of Trinary Dip Switch remote transmitters.

- b. If UL approved Self-Monitoring Safety Operation in 115V single phase application is required, control system must include a CPS, CPS-N4 Self-Monitoring Sensor to detect obstructions in doorway.
- 4. Operator: Electronic Reversing Device (ERD) to reverse gate if gate encounters a vehicle while closing, and stop and reverse if it hits a vehicle while opening; adjustable timer that can be set for 3 to 60 seconds to temporarily hold gate open before closing.
- 5. Track: Heavy-duty, 12 gauge, gold-zinc plated steel.
- 6. Door Drive: Full #41 on 1/2 HP motors roller chain; door speed of approximately 11 inches (279 mm) per second.
- 7. Primary Speed Reduction Device: Gear reducer 40 to 1 geared, lubricated by oil bath.
- 8. Limit Assembly: Fully adjustable, driven linear-type switch mechanism synchronizing door with operator. Low-friction nylon limit nuts shall be fitted on threaded steel shaft, rotating on oil tight self-lubricating bronze bushings. Motor shall be removable without affecting limit switch settings.
- 9. Trolley Assembly: 2 inch (51 mm) by 2 inch (51 mm) gold-zinc plated steel angle rails with trolley included plated steel rail spacer with nylon chain guide assembly.

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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