

SECTION 08730

AUTOMATIC DOOR OPERATORS

RESIDENTIAL DC MOTOR BELT DRIVE GARAGE DOOR OPENER
LIFTMASTER ELITE SERIES MODEL 3850



PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Trolley-type door operators for standard lift sectional doors.

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.
- B. UL325 – Safety Standard for Door, Drapery, Gate, Louver, and Window Operators/Systems

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.

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 lifetime motor and belt warranty. Five year warranty on all other parts. One year warranty on 485LM Battery.
- B. Manufacturer is an ISO9001/2000 Certified Company.

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. Email: www.chamberlain.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 TROLLEY OPERATED BELT DRIVE GARAGE DOOR OPERATOR

- A. DC Motor Belt Drive Operator: For residential sectional doors, with anti-burglary Security+ rolling code radio receiver, door travel rate speed of approximately 11" per second going up, and 7.5" per second going down; Operating Temperature: -40 degrees to 150 degrees F. Installed Length of 125'. Max. Door Opening – 7'6".
- B. Model 3850; Chamberlain Elite Series, Elmhurst, IL.
 - 1. Electric Operator: Model 3850 light-duty assembly, complete with DC electric motor, built-in EverCharge Battery Backup System, factory-prewired motor controls, solid state microcontroller with built-in surge suppressor, UL and CSA listed self-monitoring infrared sensing device integral to operator system and accessories required for proper operation.
 - a. Adjustments: Force – Internal Up and Down; Limit: Internal/Electronic.
 - b. Electric Motor: 800 Newtons, 53 RPM, 120 VAC, 60 Hz, 524 Watts Total System, with automatic motor thermal protection. Reduction Means: Gear 63:1. Permanent lubrication. Motor starter shall be of solid-state circuitry and enclosed in a NEMA 1 enclosure. Line Cord: 6' with a 3-prong plug. UL Listed. Variable Speed soft start/soft stop. Door Linkage: Adjustable Door Arm. Logic Type: Solid-State Microcontroller with built-in Surge Suppressor.
 - c. Radio Receiver: LiftMaster 315MHz on-board, single-channel receiver with external antenna and equipped to accept Security+ Rolling Code Technology remote transmitters and Trinary Dip Switch remote transmitters. HOMELINK in-vehicle universal remote control compatible.
 - 2. Self-Monitoring Safety Operation Application (Protector System): Operator shall include automatic safety reverse (on close) / automatic door stop (on open) and CPS self-monitoring infrared safety devices. Power Failure/Quick Release Handle and Ventilation/Pet Opening functions are standard equipment. Includes two 100 Watt light bulbs with adjustable length of light delay (solid state control).
 - 3. Materials: Steel chassis with solid-steel T rail and steel trolley.
 - 4. Security: PosiLock anti-intruder lock system when door is closed

5. Optional Accessories:
 - a. Wireless Keyless Entry with Security+ (model 377LM).
 - b. Garage Door Open/Close Monitor (model 915LM).
 - c. Wireless Control Panel (model 378LM).
 - d. Laser Garage Parking Assist (model 975LM).
 - e. Mini 3-Button Remote Control with Security+ (model 370LM).

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.

END OF SECTION