

Medium-Duty Door Operator Specifications



PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Jackshaft-type door operators for high or vertical lift sectional doors and limited rolling door and grille applications.

1.2 RELATED SECTIONS

- ** Note to Specifier: Please list all applicable CSI Masterformat Sections requiring coordination to Automatic Door Operators.

1.3 REFERENCES

- ** Note to Specifier: Please list all applicable Standards, Codes and other Reference documentation related to the design, functionality, installation and performance of Automatic Door Operators.

1.4 SUBMITTALS

- ** Note to Specifier: Please list all applicable submittal requirements required for approval.

1.5 DELIVERY, STORAGE, AND HANDLING

- ** Note to Specifier: Please list all applicable delivery, storage and handling requirements for Automatic Door Operators that are pertinent to the project site and conditions.

1.6 WARRANTY

- A. Manufacturer's standard 2-year 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 JACKSHAFT OPERATED DOOR OPERATOR

- A. Medium-Duty Operator: Limited-duty (recommended duty of 12 cycles per hour), high-starting torque motor with overload protection and emergency disconnect for manual door operation; Model MJ; Chamberlain, Elmhurst, IL.
 1. Electric Operator: Model MJ medium-duty assembly, cULus Listed and cULus Labeled, with electric motor and factory-prewired motor controls, emergency floor-level manual chain hoist mechanism with electrical interlock, electric solenoid-actuated brake, 3-button OPEN/CLOSE/STOP control station, conduit-encased wiring from control circuit to motor, and accessories required for proper operation; operator shall provide a door 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 shall be equipped with adjustable friction clutch and output and door driven sprockets.
 - b. Brake: Electric solenoid-actuated brake capable of stopping and holding a door at any position.
 - c. 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.
 - d. Electric Motor: High-starting torque, 1/2 Horsepower, 115 volts, 1 phase motor with an internal automatic reset thermal overload device to protect against overload.
 - e. Motor Control and Enclosure: LiftMaster Medium Duty Logic motor control shall be a microprocessor solid-state type PCB; the control board shall provide the capability to select one of two wiring types, diagnostic LEDs for operator status and troubleshooting, programmable timer-to-close w/timer defeat capabilities and a maximum run timer to provide motor overrun protection; motor control shall be housed in a NEMA 1 enclosure integral to the operator and shall conform to ANSI/NEMA ICS6.
 - 1) Radio Receiver: LiftMaster Medium Duty Logic on-board, 3-channel receiver with external antenna; equipped to accept Security+ Rolling Code Technology remote transmitters and Trinary Dip Switch remote transmitters, with memory for up to 20 Security+ remote transmitters or an unlimited number of Trinary Dip Switch remote transmitters.
 - f. 3-Button Control Station: 3-button station providing OPEN/CLOSE/STOP within a NEMA 1 Type enclosure.

- g. Door Drive: Full #41 roller chain; operator shall be equipped with a floor level disconnect for manual operation of the door.
2. Primary Entrapment Protection Safety Devices
NOTE TO SPECIFIER for any type of operating mode other than constant contact on the 'Close' button of the 3-button station to lower the door, one of the following UL-Approved and UL-Listed Monitored Entrapment Protection safety devices must be connected directly to the Logic 4 operator; select one of the following:
 - a. Industrial/Commercial Monitored Photo Sensors: CPS-U fully monitored, non-contact, infrared beam photo sensor system shall reverse, in conjunction with the Logic 4 operator, a closing door to the full open position when an obstruction is sensed; photo sensors shall be mounted no higher than 6" maximum above the floor.
 - b. NEMA 4 Monitored Photo Sensors: CPS-UN4 fully monitored, non-contact, infrared beam reversing photo sensor system, with NEMA 4 watertight enclosure shall reverse, in conjunction with the Logic 4 operator, a closing door to the full open position when an obstruction is sensed; photo sensors shall be mounted no higher than 6" maximum above the floor.
 - c. Monitored Sensing Edge Interface: CPS-EI edge interface shall provide a means to attach a 4-wire monitored sensing edge to a Logic 4 operator for continuous monitoring purposes; the edge, in conjunction with the Logic 4 operators shall reverse a closing door to the full open position when an obstruction is sensed; sensing edge supplied by others.
 3. Ancillary Entrapment Protection Safety Devices
** NOTE TO SPECIFIER** Ancillary Entrapment Protection safety devices are optional and can be used to supplement, but not replace, Primary Entrapment Protection safety devices; select one of the following:
 - a. Retro-Reflective Photo Sensors: CPS-RN4 non-monitored, non-contact, infrared beam photo sensor with polarized reflector for use in conjunction with the CPS-EI edge interface and monitored 4-wire sensing edge; shall reverse a closing door to the full open position when an obstruction is sensed; photo sensor shall be mounted no higher than 6" maximum above the floor.
 - b. Non-Monitored Electric Sensing Edge: 2-wire non-monitored electric edge shall reverse a closing door to the full open position when an obstruction is sensed
 - c. Pneumatic Sensing Edge: Pneumatic (air hose) sensing edge shall reverse a closing door to the full open position when an obstruction is sensed.

PART 3 EXECUTION

3.1 EXAMINATION

- ** Note to Specifier: Please list all requirements regarding examination of the Substrate to which Automatic Door Operators will be mounted.

3.2 PREPARATION

- ** Note to Specifier: Please list all requirements regarding preparation of the Substrate to which Automatic Door Operators will be mounted.

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.



Jackshaft Operator

Medium-Duty Logic Door Operator

CHAMBERLAIN IS AN ISO9001:2008 REGISTERED COMPANY



I.C./F.C.C. Certified

Customer _____

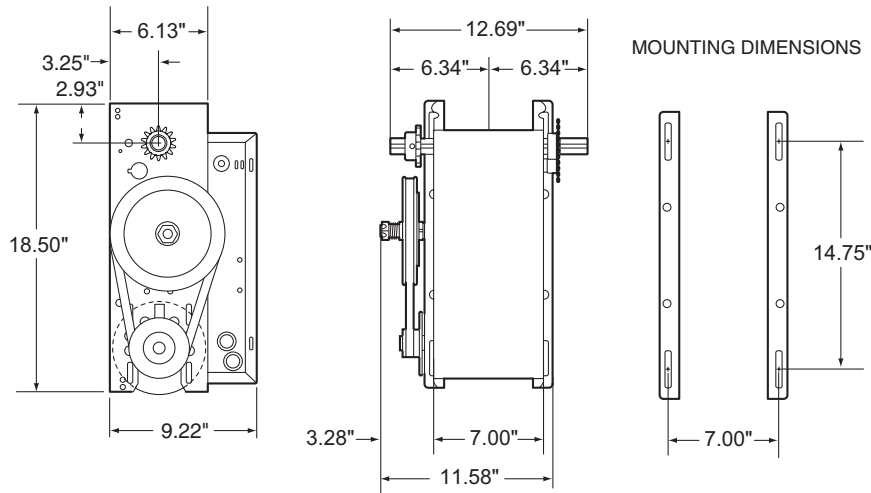
Project _____

Architect/Engineer _____

Contractor _____

Drawing Number _____ Date _____ Sheet _____ of _____

SHOP DRAWING



Specifications for Ordering

1) Supply _____ () LiftMaster Operator(s) Model _____
 _____ HP, _____ Volts, _____ Phase, _____ Hertz _____

2) For _____ wide x _____ high door(s) with _____

3) Supply _____ () OPEN/CLOSE/STOP control station(s) in NEMA _____ enclosure per operator

4) Supply auxiliary and optional equipment as specified below (one per operator unless otherwise noted)

Additional Info

Notes:

- 1) Refer to Model MJ product data sheet for general information
- 2) Refer to drawing _____ for wiring diagram

MOTOR AMPERAGE RATING	
HORSE POWER	VOLTAGE - PHASE - 60Hz
1/2	6.5

Manufactured by:
 The Chamberlain Group, Inc.
 845 Larch Avenue • Elmhurst, Illinois 60126
For More Information:
 call (800) 323-2276
 visit www.liftmaster.com or
<http://specs.liftmaster.com/architectscorner>

LiftMaster®

Commercial Door Operators