

Industrial-Duty Door Operator Specifications

COMMERCIAL DOOR OPERATOR

MODEL

J

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. Industrial-Duty Operator: Continuous-duty, high-starting torque motor with overload protection and emergency disconnect for manual door operation; Model J; Chamberlain, Elmhurst, IL.

1. Electric Operator: Model J industrial-duty assembly, cULus Listed and cULus Labeled, complete with electric motor and factory-prewired motor controls, positive locking mechanical system acting as a holding brake, emergency disconnect for manual operation of the door, 3-button OPEN/CLOSE/STOP control station, conduit-encased wiring from control circuit to motor, and accessories required for proper operation; operator shall be capable of driving door at a speed of approximately 8 inches (203 mm) to 9 inches (229 mm) per second

- a. Drive Reduction: Heavy-duty 5L V-belt primary reduction and chain/sprocket secondary and third stage reduction; all reduction sprockets and pulleys shall be drilled and pinned to steel shafts plated for resistance to corrosion; operator shall be equipped with permanently lubricated ball bearings on output shaft, adjustable friction clutch and output and door driven sprockets.

- b. Limit Switches: Fully adjustable, driven linear-type switch mechanism synchronizing operator with door; low friction nylon limit nuts fitted on treaded steel shaft that rotates on oil-tight self-lubricating bronze bushings; motor shall be removable with affecting limit switch settings.

- c. Electric Motor: High-starting torque, continuous-duty, industrial-type protected against overload by current sensing and thermal overload devices.

1) Motor Specification

NOTE TO SPECIFIER: select one of the following:

- 2) 115V-60Hz-1Phase; 1/3, 1/2, 3/4 or 1HP
3) 230V-60Hz-1 Phase; 1/3, 1/2, 3/4 or 1HP
4) 208/230V-60Hz-3 Phase; 1/3, 1/2, 3/4 or 1HP
5) 460V-60Hz-3 Phase; 1/3, 1/2, 3/4 or 1HP
6) 575V-60Hz-3 Phase; 1/3, 1/2, 3/4 or 1HP

- d. Motor Control and Enclosure: LiftMaster LOGIC 4.0 motor control shall be UL approved microprocessor solid-state type and shall include the capability to select one of seven wiring types; additional features shall include a maintenance alert diagnostic system, programmable timer-to-close w/ timer defeat input, mid-stop programming 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 LOGIC 4.0 on-board, 3-channel receiver with standard external antenna; equipped to accept Security+ Rolling Code Technology remote transmitters and Trinary Dip Switch remote transmitters, with memory for up to 23 Security+ remote transmitters or an unlimited number of Trinary Dip Switch remote transmitters.

- e. 3-Button Control Station: 3-button station providing OPEN/CLOSE/STOP functionality shall be NEMA Type 1 with maintenance alert indicator to signal intervals for routine door and operator maintenance.

- f. Door Drive: Full #50 roller chain; operator shall be equipped with a floor level disconnect for manual operation of the door.
g. Optional Operator Modifications **NOTE TO SPECIFIER**: select only if applicable:
1) Electric solenoid-actuated brake capable of stopping and holding a door at any position.

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.

LiftMaster
ELITE SERIES™
LOGIC 4.0

Chamberlain reserves the right to make design or specification changes without notice.

Form LM SPEC J

J Jackshaft Operator

Industrial-Duty Door Operator

CHAMBERLAIN IS AN ISO9001:2008 REGISTERED COMPANY



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

Customer _____

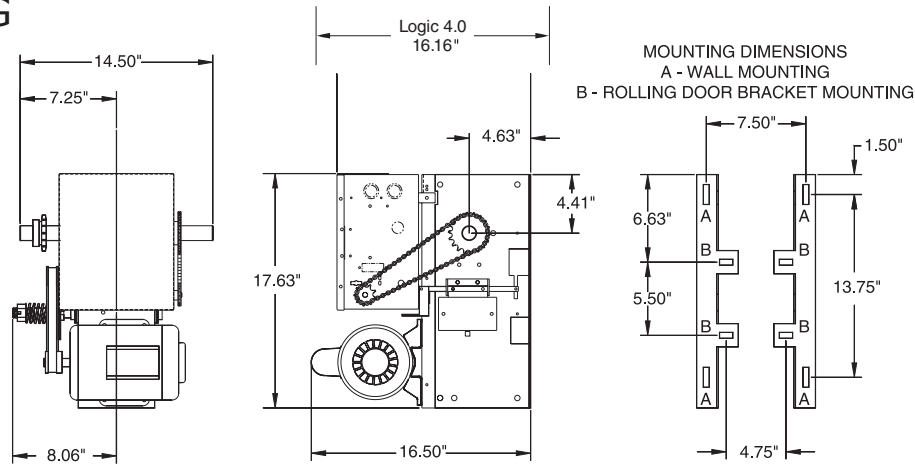
Project _____

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 J product data sheet for general information
- 2) Refer to drawing _____ for wiring diagram

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

MOTOR AMPERAGE RATING					
HORSE POWER	VOLTAGE - PHASE - 60Hz				
	115-1Ø	230-1Ø	230-3Ø	460-3Ø	575-3Ø
1/3	6.6	3.3	2.2	1.0	0.8
1/2	8.2	4.1	2.2	1.0	0.8
3/4	11.2	5.6	2.9	1.4	1.2
1	13.6	6.8	3.4	1.7	1.4

LiftMaster®

Commercial Door Operators