

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. 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 MGJ; Chamberlain, Elmhurst, IL.

1. Electric Operator: Model MGJ medium-duty assembly, cULus Listed and cULus Labeled, with electric motor and factory-prewired motor controls, emergency floor-level disconnect for manual operation, 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: Wormgear-in-oil-bath reducer; operator equipped with floor-level disconnect 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 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, 1/2 Horsepower, 115 volts, 1 phase motor with an internal automatic reset thermal overload device to protect against overload.
 - d. 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.
 - e. 3-Button Control Station: 3-button station providing OPEN/CLOSE/STOP within a NEMA 1 Type enclosure.
 - f. Door Drive: Full #41 roller chain; operator shall be equipped with an electrically interlocked, floor level disconnect for manual operation.

2. Primary Entrapment Protection Safety Devices
 - **NOTE TO SPECIFIER** for any type of operating mode other than basic 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 corrected 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.

MGJ Gear Jackshaft Operator

Medium-Duty Logic Door Operator

CHAMBERLAIN IS AN ISO9001:2008 REGISTERED COMPANY



Customer _____

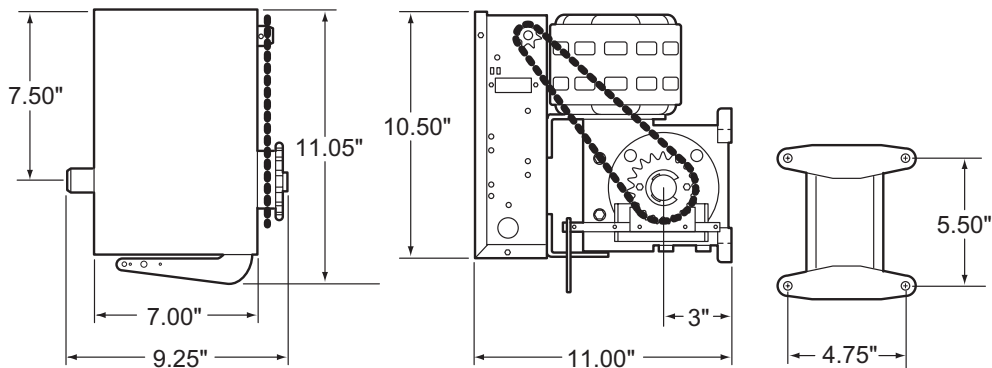
Project _____

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

MOTOR AMPERAGE RATING			
HORSE POWER	VOLTAGE-PHASE-60Hz		
	115-1Ø	230-1Ø	460-3Ø
1/2	6.5	2.1	1.1

Manufactured by:
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For More Information:
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 visit www.liftmaster.com or
<http://specs.liftmaster.com/architectscorner>

LiftMaster®
 Commercial Door Operators