Industrial-Duty Hoist Operator Specifications

PART 1 GENERAL

- 1.1 SECTION INCLUDES
- A. Hoist-type door operators for rolling doors, shutters, and grilles. 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

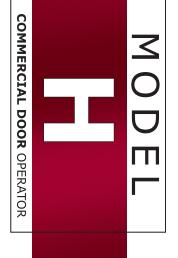
2.1 MANUFACTURERS

- A. Industrial-Duty Operator: Continuous-duty, high-starting torque motor with overload protection and an emergency chain hoist with electric interlock; Model H; Chamberlain, Elmhurst, IL.
 - Electric Operator: Model H industrial-duty assembly, cULus Listed and cULus Labeled, with electric motor and factoryprewired motor controls. positive locking mechanical system acting as a holding brake, manually operated chain hoist, 3-button OPEN/CLOSE/STOP control station, conduitencased wiring from control circuit to motor, positive locking mechanical system acting as a holding brake, and accessories required for proper operation; door 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, continuousduty, industrial-type protected against overload by current sensing and thermal overload devices.
 1) Motor Specification (NOTE TO SPECIFIER:
 - Motor Specification (NOTE TO SPECIFIER: select one of the following):

 (a) 115V-60Hz-1Phase; 1/3, 1/2, 3/4 or 1HP
 (b) 230V-60Hz-1 Phase; 1/3, 1/2, 3/4 or 1HP
 (c) 208/230V-60Hz-3 Phase; 1/3, 1/2, 3/4 or 1HP
 (d) 460V-60Hz-3 Phase; 1/3, 1/2, 3/4 or 1HP
 (e) 575V-60Hz-3 Phase; 1/3, 1/2, 3/4 or 1HP
 (e) 575V-60Hz-3 Phase; 1/3, 1/2, 3/4 or 1HP

 Motor Control and Enclosure: LiftMaster LOGIC 4.0 motor control abult bally approved prior processor collided bate
 - 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.
 - 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 an electrically interlocked, floor level disconnect and chain hoist for manual operation.

- 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
- 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.
- 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,
 - 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 nonmonitored 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.

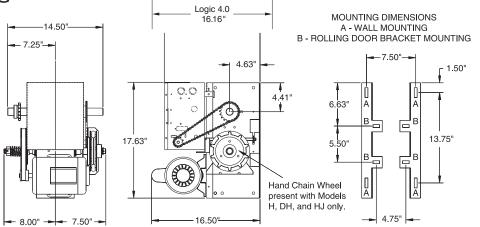






Customer			
Project			
Architect/Engineer			
Contractor			
Drawing Number	_Date	_ Sheet	_of

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 contr	ol station(s) in NEMA enclosure per operator		
4) Supply auxiliary and optional equipment as specified below (one per operator unless otherwise noted)						
Additional Inf	0					

Notes:

Refer to Model H product data sheet for general information
 Refer to drawing ______ for wiring diagram

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

MOTOR AMPERAGE RATING									
HORSE	VOLTAGE - PHASE - 60Hz								
POWER	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				



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