Heavy Industrial-Duty Door Operator Specifications

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Trolley-type door operators for standard lift sectional doors.
- **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.
- Requests for substitutions will be considered in accordance with provisions of Section 01600.
- 2.2 TROLLEY OPERATED DOOR OPERATOR
- A. Heavy Industrial-Duty for Standard Lift Sectional Door: Continuous-duty, high-starting torque motor with overload
 - Contributes duty, high-starting torque index with overload protection and emergency disconnect for manual door operation; Model GT; Chamberlain, Elmhurst, IL.
 Electric Operator: Model GT heavy industrial-duty assembly, cULus Listed and cULus Labeled, complete with electric motor and factory-prewired motor controls, wormgear reduction unit, electric solenoid-actuated brake, 3-button ODEM/CLOCE/STOR control actuated brake, 3-button OPEN/CLOSE/STOP control station along with conduitencased wiring from control circuit to motor and accessories required for proper operation; operator shall be capable of driving door at a speed of approximately 11 to 12 inches (279 mm) to 12 inches (304 mm) per second
 - a. Primary Drive Reduction: Wormgear-in-oil-bath gear reducer with synthetic "All Climate" oil with 45:1 speed reduction; adjustable torque limiter and quick disconnect door arm to facilitate manual operation;

 - b. Brake: Electric solenoid-actuated ball bearings on output shaft; and, output and door driven sprockets
 b. Brake: Electric solenoid-actuated brake that is 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 treaded steel shaft that rotates on oil-tight self-lubricating bronze bushings; motor shall be removable with affecting limit switch settings.
 - d. 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): ** NOTÉ TO SPECIFIER ** - select one of the following):
 (a)115V-60Hz-1Phase; 1/2, 3/4, 1, or 1-1/2 HP
 (b)208/230V-60Hz-1 Phase; 1/2, 3/4, 1, or 1-1/2 HP
 (c)208/230V-60Hz-3 Phase; 1/2, 3/4, 1, or 1-1/2 HP
 (d)460V-60Hz-3 Phase; 1/2, 3/4, 1, or 1-1/2 HP
 (e)575V-60Hz-3 Phase; 1/2, 3/4, 1, or 1-1/2 HP
 (f)460V-60Hz-3 Phase; 1/2, 3/4, 1, or 1-1/2 HP
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 (f)460V-60Hz-3 Phase; 1/2, 3/4, 1, or 1-1/2 HP
 (h)460V-60Hz-3 Phase; 1/2, 3/4, 1, or 1-1/2 HP
 (h)46
 - 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.



- f. 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.
- g. Door Drive: Full #41 roller chain with emergency disconnect for manual door operation.
- h.
- door operation. Track: Heavy-duty, double-angle, 11 gauge galvanized steel. Trolley Assembly: 2 inch (51 mm) by 2 inch (51 mm) galvanized steel angle i. rails with cast aluminum trolley including plated steel rail spacers with nylon chain-guide assembly.



- 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
 - DE-Approved and OE-Listed Monitored Entraphient
 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.
 - 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.
- Monitored Sensing Edge Interface: CPS-EI edge interface shall provide a means to attach a 4-wire monitored sensing c. 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 rotection safety devices are optional and can be used 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 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. 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
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- Pneumatic Sensing Edge: Pneumatic (air hose) sensing edge shall reverse a closing door to the full с. 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. Touch-up, repair or replace damaged products В before Substantial Completion.



GARAGE DOORS

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