

CHAMBERLAIN®

LiftMaster®

ELITE™ SERIES LOGIC 3.0

MODEL H
COMMERCIAL DOOR
OPERATOR

USP
UNITED STEEL PRODUCTS



INDUSTRIAL-DUTY HOIST OPERATOR

- Continuous-duty high-starting torque motor
- Universal-mount frame design
- Industrial ball bearings on output shaft
- Emergency chain hoist with electric interlock

Logic 3.0 Technology

More included features than ever before. Easier and faster to install.

Elite™ Series Commercial Door Operators are engineered, manufactured and tested to provide reliable service to meet the toughest commercial applications.

Added Value

- Built-in 3-channel, 315MHz radio receiver lets you add as many as 23 Security+® or unlimited DIP switch remote controls.
- All LiftMaster® 3-button remotes can be programmed for open/close/stop operation.
- Improved Maintenance Alert System™ lets you establish a routine maintenance schedule based on the number of cycles or calendar date. Includes self-diagnostic system that allows you to troubleshoot up to eight different error codes.
- Timer may be set to close in 5-second or 1-minute increments. LED flashes to show timer countdown.
- Thermal motor overload can now be easily reset from the 3-button floor level control station.
- Programmable mid-stop allows door to stop at mid-point during open travel.
- Programmable maximum run timer signals door to reverse or stop if closing time exceeds maximum by more than 10 seconds.

Reliability

- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators, the industry's #1 cause of motor failure and callbacks.
- All high-voltage connections have been removed from the board for safer installation and improved reliability.
- 1-1/2-second delay-on-reverse helps prevent door and operator wear.

Programming Simplicity

- Selector dial replaces DIP switches for selecting wiring types and programming.
- Selector switch for failsafe and non-failsafe wiring types.
- Diagnostic LEDs speed installation and troubleshooting of more features including photo-eyes, mid-stop, timer and timer defeat.
- Motor direction jumper lets you change motor direction by simply moving a jumper.



Includes the Logic 3.0 board and the Improved Maintenance Alert System™



Featuring built-in radio receiver
Compatible with up to 23 Security+®
or unlimited DIP switch remote controls
(Remote controls sold separately)

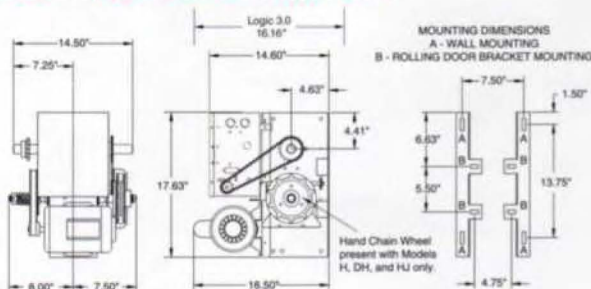
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Standard Features

- Motor**
 Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/3, 1/2, 3/4 and 1 HP; single- or three-phase. Capacitor start on single-phase. Removable without affecting limit switch settings.
- Drive Reduction**
 First-stage heavy-duty 5L V-belt; second and third stages #48 chain; #50 drive chain.
- Emergency Manual Operation**
 Model H provides easy emergency manual operation using an electrically interlocked floor level disconnect and chain hoist mechanism.
- Wiring Type**
 B2, C2, D1 and E2 wiring types are all standard and easily selectable using the Logic 3.0 Control Board (L). T and TS wiring can be activated with the use of the CPS-L or CPS-LN4. Failsafe wiring can be selected with the addition of a CPS-L, CPS-LN4 or failsafe edge and CPS3 card. Reversing Contactor Units (M) have C2 wiring standard and B2 available by simply moving a jumper wire. All operators are pre-wired to accept a sensing edge, photoelectric sensors, radio controls and most types of access control equipment.
- Radio Receiver & External Radio Control Terminal**
 315MHz radio receiver included as standard on Logic 3.0. Accepts up to 23 Security+® remote controls and unlimited DIP switch remotes. External terminals provide quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.
- Positive Locking Mechanical Brake System**
 Efficient self-locking mechanical reduction system functions as a holding brake.
- Friction Clutch**
 Adjustable friction clutch helps protect against major damage to door and operator should the door meet an obstruction.
- Bearings**
 Industrial ball bearings on a 1" output shaft; heavy-duty, oil-filled iron bearings on reduction shafts.
- Control Circuit**
 5V DC NEC Class 2 (logic), 24V DC NEC Class 2 (mechanical)
- Construction**
 NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with durable powdercoat finish, all reduction sprockets drilled and pinned to shafts.
- Push Button Station**
 3-button station for open/close/stop functions is standard for all operators. Controls with 1, 2 and 3 buttons are available.

Technical Information:



Also Available... Mechanical Reversing Contactor Circuit (M)

(115V, 208/230V, 460V, 575V, 24V NEC Class 2 Circuit with 40VA transformer)

Industrial linear contactor provides significantly longer control runs than conventional contactors. Circuit provides easy selection between C2 and B2 wiring with the movement of a single wire.

CHAMBERLAIN®
LiftMaster®

THE CHAMBERLAIN GROUP, INC.
845 Larch Avenue • Elmhurst, IL 60126

www.liftmaster.com

Control Accessories and Options

- CPS® Commercial Protector System®:**
CPS, CPS-L, CPS-N4, CPS-LN4 (recommended)
 An inexpensive "non-contact" photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.
 - Sensing Edge (recommended)**
 Designed to sense an obstruction and signal door operator to stop or reverse as desired. Either an electric or pneumatic sensing device can be added to bottom edge of door.
 - Transmitters**
 1- and 3-button transmitters available for Logic 3.0. 3-button transmitter can be programmed for open/close/stop functionality. Radio receiver and transmitters available for mechanical operators.
 - Brake**
 Heavy-duty solenoid-actuated brake.
 - Rolling Door Interlock Switch**
 Interlock switch disables the operator control circuit when a manual door lock is engaged, preventing damage to the door and operator.
- ### Available Plug-in Options for the Logic 3.0 Control Board (L)
- Timer-to-Close**
 Automatically closes the door – programmable in 5-second or 1-minute increments. Part of the CPS-L, CPS3, CPS3-N4 and CPS-LN4 photo-eye packages or in the Logic 3.0 plug-in package.
 - Auxiliary Contact**
 Used to operate security, warning, heating or other 5V to 240V devices. Features both normally open and closed contacts that actuate in conjunction with limit switches.
 - Warning Signal**
 Provides safety warning prior to close (when using timer-to-close feature). Apartment warning light function for use with included red/green light module. System also supports audio warning devices.
 - CPS3 Option**
 Enables the addition of a second set of photo-eyes or 2- or 4-wire, self-monitoring edge.

Maximum Door Area (Sq. Ft.)

ROLLING	24 GA. STEEL	22 GA. STEEL	—	20 GA./18 GA. STEEL	16 GA. STEEL	—	
	ALUMINUM DOORS	ALUMINUM DOORS	—	STEEL GRILLES	—	—	
SECTIONAL	—	24 GA./22 GA. STEEL	20 GA. STEEL	—	16 GA. STEEL	—	
	FIBERGLASS	ALUMINUM DOORS	WOOD DOORS	—	—	—	
	—	—	24 GA. STEEL INSULATED	—	20 GA. STEEL INSULATED	16 GA. STEEL INSULATED	
HORSEPOWER	1/3	310	285	260	210	175	125
	1/2	400	350	320	280	250	200
	3/4	560	500	450	380	325	275
	1	640	625	560	475	400	310

NOTE: On steel insulated doors, a 24-gauge back panel is assumed. If a heavier back panel is supplied, use the next higher HP rating.



USP™
UNITED STEEL PRODUCTS

33-40 127TH PLACE
FLUSHING, NY 11368
(718) 478-5330
www.unitedsteelproducts.com

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