

# Model GCL - GT / GH

## Heavy-Duty Specifications



### COMMERCIAL LINE

#### PART 1 – GENERAL

##### 1.01 WORK INCLUDED

- A. Provide electric door operator(s) of size and capacity recommended for door(s) as provided by door manufacturer with electric motor and factory pre-wired motor controls, starter, reduction unit, disc brake, clutch (optional on hoist), control devices, and accessories required for proper operation.

##### 1.02 RELATED WORK

- A. Opening preparation, miscellaneous or structural metal work, access, field electrical wiring, wire conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.

##### 1.03 QUALITY ASSURANCE

- A. In accordance with accepted quality assurance guidelines for motor-operated doors, both the door and electric operator shall be manufactured by a single-source producer of door systems.

#### PART 2 - PRODUCT

##### 2.01 GENERAL

- A. The electric door operator shall be the Model GCL Heavy-Duty door control system for a (standard lift) (lift-clearance), (full-vertical) sectional door and / or (rolling steel door) and /or (rolling steel grille) as manufactured by The Genie Company and suitable for the type and size of door specified.
- B. The electric operator shall be (single phase) (three phase) with MultiVolt™ - the ability to adjust to the correct voltage of (115/208/230 for single phase) (208/230/460 for three phase) without removal or addition of any parts. (The electric operator shall be 575VAC three phase).
- C. All components to have corrosion resistant coatings.
- D. The operator shall be suited for NEMA ICS 6 Type 1 (NEMA ICS 6 Type 4) (NEMA ICS 6 Type 4X) environment.

##### 2.02 MOTOR

- A. Motor shall be:
  - a. (1/2 horsepower single phase or three phase with automatic thermal reset overload)
  - b. (3/4 horsepower or 1 horsepower single phase with manual reset overload)
  - c. (3/4 horsepower or 1 horsepower three phase with automatic thermal reset overload)
  - d. (3 horsepower three phase with automatic thermal reset overload)Motor frame shall comply with NEMA (48 for 1/2 HP single phase) (56 for 1/2 HP three phase, 34, 1 and 3 HP all phases), (open drip-proof construction) (Totally Enclosed Non Ventilated – TENV construction) (Totally Enclosed Fan Cooled – TEFC construction).

##### 2.03 REDUCTION

- A. Primary reduction is worm gear in oil bath (secondary reduction is by chain and sprocket).

##### 2.04 DUTY CYCLE

- A. Duty cycle shall accommodate heavy usage, up to 60 cycles per hour under a large constant load.

##### 2.05 BRAKE

- A. Brake shall be a DC disc type with selectable progressive braking for smooth stopping.

##### 2.06 CLUTCH

- A. Clutch shall be adjustable torque-limiter type. Standard on trolley models (optional on hoist models).

##### 2.07 LIMIT SYSTEM

- A. The EZ Limit™ system shall be magnetic type providing absolute positioning with push to set capabilities. The Limit System shall remain synchronized with the door during manual operation and supply power interruptions.

##### 2.08 CONTROL SYSTEM

- A. The control system shall be microprocessor based with relay motor controls on a single board. This system will incorporate a 16-character Liquid Crystal Display (LCD) to display the system status. This system shall be capable of monitoring and reporting on a variety of operating conditions, including: Current operating status, Current command status, Motor movement status, Current error status (if applicable), Hoist Interlock status (if applicable), External Interlock status, and 24VDC status.
- B. The control system shall feature a delay-on-reverse operating protocol.
- C. The system shall include maximum run timers in both directions of travel that limit motor run time in the event a clutch slips or some other problem occurs.

- D. It shall include provisions for the connection of a 2-wire monitored photocell system or a 2-wire monitored edge sensor, as well as non-monitored 2-wire sensing edges, photocells or other entrapment protection devices.
- E. Control action will be constant contact close until a monitored entrapment device is installed, allowing for selection of momentary contact.
- F. The system shall include provisions for connection of an external, 3-wire radio control, and single and/or 3-button control stations.
- G. The control system shall include on board open, close and stop control keys for local operation.
- H. Trolley operators shall include an inherent secondary reversal system.
- I. The control system will include an IntelliCode® 1 radio receiver that is 315 MHz and capable of storing 50 single button and/or 50 Open-Close-Stop transmitters with the ability to add and/or delete transmitters individually, identify and store activating transmitter ID(s).

##### 2.09 MOUNTING

- A. Mounting for sectional doors shall be by jackshaft that is (side mount) (center mount) chain/sprocket coupling to door (trolley) (side-mount trolley) (dual trolley).
- B. Mounting for rolling steel doors shall be (front of hood) (wall-mount) and chain/sprocket coupling to door.
- C. Mounting for hoist models shall be (left hand) (right hand) field adjustable.

##### 2.10 RELEASE

- A. (Release shall be a pull and hold type mechanism with single cable operation and an integrated interlock switch on hoist units.) (Release shall consist of a manual disconnect door arm on trolley units).

##### 2.11 HOIST

- A. Chain hoist shall consist of chain pocket wheel, chain guard and smooth hand chain on hoist units. Standard on hoist models (optional on trolley as side mount kit).

##### 2.12 SECONDARY REVERSAL

- A. Trolley version only shall include an integral electronic reversing system that will stop and reverse a closing door upon detection of an obstruction and designed to accept an optional external reversing device.
- B. Hoist versions shall be designed to accept an optional external reversing device.

##### NOT FOR RESIDENTIAL USE.

##### 2.13 OPTIONAL CONTROL ACCESSORIES

- A. Control accessories: In (lieu of) (addition to) (interior push-button control station) (exterior push-button control station) (interior key switches) (exterior key switches) (radio control) (Genie monitored photo electric eyes) (commercial photo electric eyes) (floor loops) (motion sensors).
- B. Operator Accessories shall be Timer to Close and will provide auxiliary control inputs, auxiliary safety inputs, auxiliary timer hold input, and an automatic door closing feature with a user selectable time delay. Safety inputs are to be enabled or disabled using the on board keypad.
- C. Operator Accessories shall be Auxiliary Output Module and will provide several auxiliary sets of dry contacts that are microprocessor controlled. Provides contacts for (up) (down) (mid-stop) limit. Provides contacts to be configured using the on board keypad to activate (lights)(horn)(strobes) while door is running (up)(down)(both up and down).

#### PART 3 - EXECUTION

- 3.01 The Model GCL Heavy Duty™ shall be installed in accordance with The Genie Company instructions and standards. Installation will be by trained and authorized Genie Company distributors or dealers.

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*Note to specifier:*

*This specification is a suggested guide. Available options are shown in parentheses.*

**Model GCL – GT / GH**  
**Heavy-Duty Specifications**



**COMMERCIAL LINE**

**SALES INFORMATION**

**Job Name:** \_\_\_\_\_

**Architect:** \_\_\_\_\_

**Contractor:** \_\_\_\_\_

**APPLICATION INFORMATION**

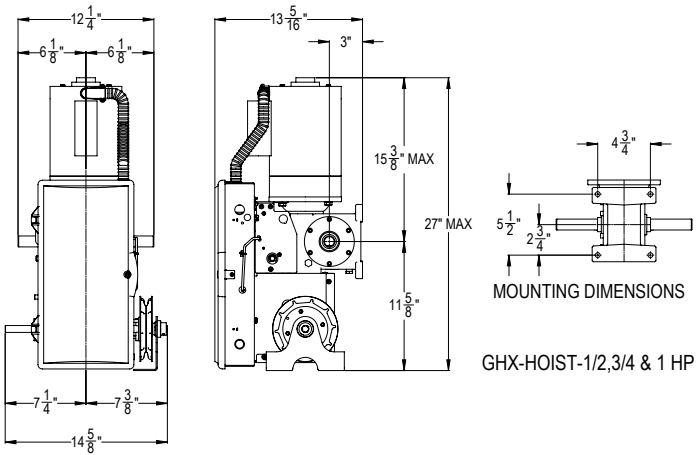
**Door Type:** \_\_\_\_\_ **Door Size - Width:** \_\_\_\_\_ **Height:** \_\_\_\_\_ **Drive Side:** \_\_\_\_\_

**Heavy-Duty Model:** \_\_\_\_\_ **HP:** \_\_\_\_\_ **Voltage:** \_\_\_\_\_ **Phase:** \_\_\_\_\_ **Hertz:** \_\_\_\_\_

**Monitored Entrapment Device:** \_\_\_\_\_

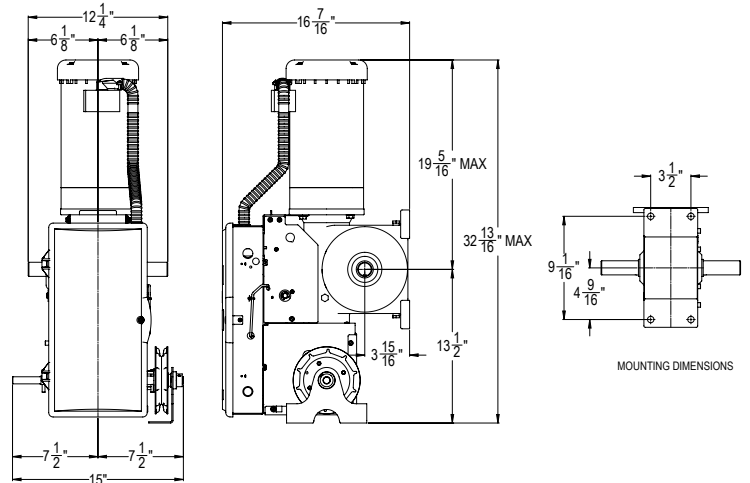
**DIMENSIONS**

**GCL-GH 1/2 , 3/4, 1 HP**



GHX-HOIST-1/2,3/4 & 1 HP

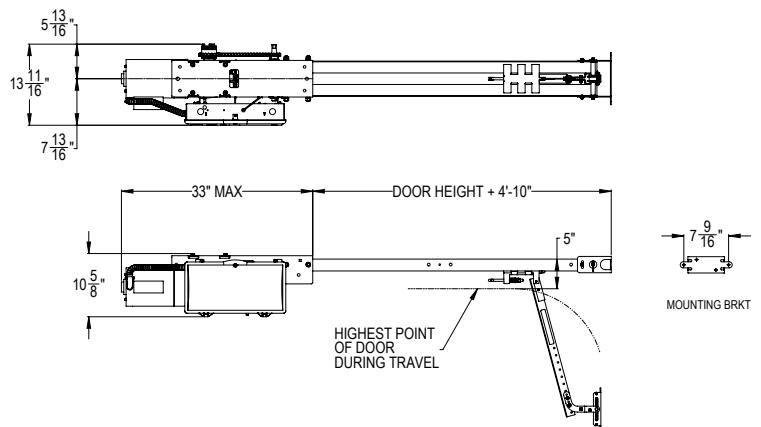
**GCL-GH 3 HP**



MOUNTING DIMENSIONS

AMPERAGE RATING 60Hz							
HP	115V 10	208V 10	230V 10	208V 30	230V 30	460V 30	575V 30
1/2	10	5	5	3	3	3	2
3/4	11	6	6	3	4	3	2
1	14	7	7	4	4	3	2
3	N/A	N/A	N/A	11	10	6	5

**GCL-GT 1/2, 3/4, 1 HP**



MOUNTING BRKT

