Model GCL - GH FD

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, 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-GH FD Heavy-Duty fire door control system for a rolling fire door as manufactured by The Genie Company and suitable for the type and size 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 environment.

2.02 MOTOR

A. Motor shall be:

a. (1/2 horsepower single phase or three phase with automatic thermal reset overload).

b. (1 horsepower single phase or three phase with automatic thermal reset overload).

c. (3 horsepower three phase with automatic thermal reset overload) Motor frame shall comply with NEMA (48 for 1/2HP single phase) (56 for 1/2HP three phase, 1 and 3 HP all phases), (open drip-proof construction) (Totally Enclosed Fan Cooled – TEFC construction).

2.03 REDUCTION

A. Primary reduction is worm gear in oil bath.

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 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.

2.07 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 sensing 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 single and/or 3-button control systems.

G. The system shall include open-close-stop control keys for local operation.

H. The control system will include an IntelliCode® I radio receiver that is 315Mhz 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).

2.08 MOUNTING

A. Mounting shall be (front of hood) (wall mount) and chain and sprocket coupling to door.

B. Mounting for hoist models shall be (left hand) (right hand) field adjustable.

2.09 RELEASE

A. Release shall be a pull and hold mechanism with single cable operation and integrated interlock switch on hoist units.

2.10 HOIST

A. Chain hoist shall consist of chain pocket wheel, chain guard and smooth hand chain on hoist units. Standard on hoist models.

2.11 AUTOMATIC CLOSURE VIA FDRD

A. Fire sentinel time-relay release mechanism option to provide additional safety measures for control door closure.

1) Voltage: (120VAC) (24VDC)
2) Close Method: (Motor Closure) (Gravity Closure)
3) Release Time Delay: Field adjustable dip switch setting of (10) (20) (30) or (60) seconds.
4) Normally open proximity switch to detect closed doors.
5) Supports (2-wire) (4-wire) or (both 2- and 4-wire) smoke detector systems. Capable of monitoring a maximum of four Class B, Style A detectors.
6) Unit has two 12VDC batteries with 24VDC output.
7) Power Loss Time Delay of 48 hours.
8) Unit powers optional ADA horn and 24VDC strobe.
9) Load Rating: Must support and release a maximum of 40 lbs.
10) Auxiliary output module installed into operator to accept wiring from fire sentinel.

2.12 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 controls) (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 inputs, and 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 INSTALLATION

The model GCL-GH FD Heavy-Duty fire door shall be installed in accordance with The Genie Company instructions and standards. Installation will be by trained and authorized Genie Company distributors or dealers.

Note to specifier:
This specification is a suggested guide. Available options are shown in parentheses.

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Heavy-Duty Specifications

SALES INFORMATION

Job Name:

Architect:

Contractor:

APPLICATION INFORMATION

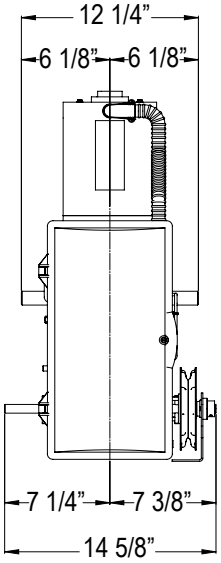
Door Type: | **Door Size - Width:** | **Height:** | **Drive Side:**

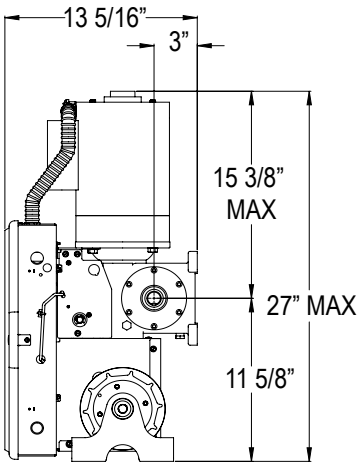
Heavy-Duty Model: | **HP:** | **Voltage:** | **Phase:** | **Hertz:**

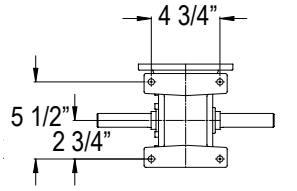
Monitored Entrapment Device:

DIMENSIONS

GCL-GH FD







MOUNTING DIMENSIONS

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

Dealer Imprint Area

