

# SPECIFICATIONS

## ATS LIGHT-DUTY TROLLEY OPERATOR

### Applications:

The model ATS (Advanced Trolley System) door operator is for use on residential or light-duty commercial door applications with standard lift. For doors up to 14' high. Maximum recommended duty cycle: 8 cycles per hour.

### Standard Features:

- High-torque 1/2 HP 115V single-phase motor with instant reverse.
- Heavy-duty steel "I-beam" configured trolley track for doors up to 10' high standard; 12' and 14' optional
- Automatic safety reverse/automatic door stop
- Includes The Protector System® non-impact infrared safety device
- Auto-reconnect trolley
- "Smart" radio receiver for one-touch security
- Door speed approximately 8 to 9 inches per second
- Motor overload protection
- 1-button control station
- Automatic light delay

### Optional Features:

- The Model ATS includes the "Smart" radio receiver. May be used with any optional remote control. For remote controls and wireless keyless entry system options, please call Access Controls International.

## 1 Year Warranty



# ATS LIGHT-DUTY TROLLEY OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)					
<b>STANDARD SECTIONAL</b>	—	24 ga. Steel	20 ga. Steel	16 ga. Steel	—
	Fiberglass Doors	Aluminum Doors	Wood Doors	—	—
	—	—	24 ga. Steel Insulated	20 ga. Steel Insulated	16 ga. Steel Insulated
<b>SQ. FT.</b>	250	210	180	120	80

OPERATOR AMP RATING (full Load)								
<b>VOLTAGE - PHASE</b>	<b>60 HZ</b>	HP	1/2	3/4	1	1-1/2	2	3
		—	—	—	—	—	—	—
<b>50 HZ</b>	115-1	5.0	—	—	—	—	—	—
	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—

**NOTE:** On steel insulated doors, a 24 ga. back panel is assumed.

The ATS is equipped with a Security+® Rolling Code Receiver: With every activation, Security+® transmits a brand-new code, one of over 100 billion codes, never to be repeated. The ATS Security+® operator can accommodate up to 8 Security+® remote controls as well as 1 Security+® keyless entry system. Ideal for multiple drivers. (Remote controls are not included.)

**ACI offers optional remote controls and a keyless entry system with Security+® anti-burglary coding.**

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# SPECIFICATIONS

## MT MEDIUM-DUTY TROLLEY OPERATOR

### Applications:

The model MT door operator is designed for use on standard lift sectional doors up to 14' high and up to 12 cycles per hour.

### Standard Features:

- Auxiliary Reversal System
- 3-button control station
- Accepts sensing device and standard residential radio receiver
- High-starting torque motor with overload protection
- Fully adjustable linear-driven limit mechanism
- 24VAC control circuit
- Heavy-duty 4L V-belt
- Type C2 wiring standard, B2 easily field set by moving 1 jumper wire or setting a switch
- Long-life dry-type motor capacitor
- Efficient V-belt drive with two-stage speed reduction
- Adjustable friction clutch
- Emergency disconnect for manual operation
- Heavy-duty 2" x 2" double-angle iron track for up to 14' high door included with swing-up header bracket
- Quiet-gliding rail spacers
- Motor removable without affecting limit settings
- Baked-on high-durability black powdercoat finish
- Door speed approximately 11 to 12 inches per second
- Approximate shipping weight - 160 lbs.

## 2 Year Warranty



# MT MEDIUM-DUTY TROLLEY OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)					
<b>STANDARD SECTIONAL</b>	—	24 ga. Steel	20 ga. Steel	16 ga. Steel	—
	Fiberglass Doors	Aluminum Doors	Wood Doors	—	—
	—	—	24 ga. Steel Insulated	20 ga. Steel Insulated	16 ga. Steel Insulated
<b>SQ. FT.</b>	310	260	225	150	100

OPERATOR AMP RATING (full Load)								
		HP	1/2	3/4	1	1-1/2	2	3
<b>VOLTAGE - PHASE</b>	<b>60 HZ</b>	115-1	6.5	—	—	—	—	—
		—	—	—	—	—	—	—
		—	—	—	—	—	—	—
		—	—	—	—	—	—	—
	<b>50 HZ</b>	230-1	3.0	—	—	—	—	—
		—	—	—	—	—	—	—

## Standard Features:

**Motor:** Powerful 1/2 HP, single phase motor with instant reverse and internal automatic reset thermal overload. Removable without affecting limit switch settings.

**Auxiliary Reversal System:** Designed to protect the door and door operator from damage; if a closing door strikes an obstruction, the Auxiliary Reversal System will detect the slip of the clutch and reverse the door to the full open position. This system is not a substitute for a safety sensing device such as a photo cell or reversing edge.

**Wiring Type:** All operators are factory preset to C2 wiring providing momentary contact to open and stop, with constant contact to close. Momentary contact to close (B2 wiring) can be easily set. The operator is pre-wired to accept a sensing device, photoelectric control, radio controls and most types of access control equipment.

**Rail Assembly:** High strength dual L-rail track with exclusive nylon quiet gliding chain guides on rail spacers for quiet, smooth operation. Includes quick-mount header bracket which provides fast, swing-up installation.

**Operator/Motor Control:** Dependable dual relay system (NEMA 1 enclosure).

Control Circuit: 24VNEC Class 2.

**Drive Reduction:** First stage heavy-duty 4LV-belt; second and third stages #48 chain; output on trolley #48 chain.

**Emergency Disconnect:** Spring-loaded disconnect for emergency manual operation.

**Pushbutton Station:** 3-button station for OPEN/CLOSE/STOP functions is standard for all operators. Controls with one, two and three buttons are available.

**Construction:** NEMA 1 type electrical box, heavy-duty 11-gauge steel frame with baked-on powder coat finish, all reduction sprockets drilled and pinned to shafts.

**Bearings:** Heavy-duty, oil filled bearings.

**External Radio Control Terminal:** External terminals provide quick, convenient connections for universal radio controls.

**Friction Clutch:** Adjustable friction clutch helps protect against damage to the door and operator should the door meet an obstruction. Works in conjunction with the Auxiliary Reversal System.

### Control Accessories and Options:

**Solenoid Brake:** Solenoid actuated brake prevents coasting. Order operator BMT. Standard on 3/4 HP and higher.

**Auto-Reconnect Trolley Assembly:** Spring-loaded trolley features nylon inserts for quiet operation and auto-reconnect feature eliminating the need to manually reattach the door arm to the trolley after emergency disconnect.

**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.

**Radio Control:** Universal transmitters and receivers are available to signal the operator to open and/or close.

**Key Switch:** Designed to restrict operation of door to authorized personnel only. Various types available.

**Interlock Switch:** Prevents accidental operation of the door by interrupting the control circuit.

**Commercial Protector System™ (Recommended):** An inexpensive "non-contact" photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.

- Safety of a non-contact infrared reversing sensor
- Fast and easy-to-install
- Patented electrical interface monitors system status at all times
- LED indicators for quick alignment
- One size fits all (for doors up to 30 feet wide)

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# SPECIFICATIONS

## T LOW-PROFILE INDUSTRIAL-DUTY TROLLEY OPERATOR

### Added Value

- Built-in 3-channel, 315 MHz radio receiver accepts up to 23 Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for open/close/stop operation.
- Maintenance Alert System™ establishes 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-to-Close allows programming in 5-sec or 1-min increments. Commercial or industrial photo-eyes required.
- Thermal motor overload can be easily reset from the 3-button floor level control station
- Reliability & Programming Simplicity
- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators
- All high-voltage connections have been removed from the board for safety and ease of service
- Diagnostic LEDs speed installation and troubleshooting
- Motor direction jumper lets you change motor direction by simply moving a jumper
- 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.

### 2 Year Warranty



# T LOW-PROFILE INDUSTRIAL-DUTY

MAXIMUM DOOR AREA (SQ. FT.)						
<b>STANDARD SECTIONAL</b>	—	24 ga. 22 ga. Steel	20 ga. Steel	16 ga. Steel	—	—
	Fiberglass Doors	Aluminum Doors	Wood Doors	—	—	—
	—	—	24 ga. Steel Insulated	20 ga. Steel Insulated	16 ga. Steel Insulated	—
	—	—	—	—	—	—
<b>HP</b>	1/3	310	285	260	175	125
	1/2	400	350	320	250	200
	3/4	560	500	450	325	275
	1	640	625	560	400	310

OPERATOR AMP RATING (full Load)								
		HP	1/3	1/2	3/4	1	2	3
<b>VOLTAGE - PHASE</b>	<b>60HZ</b>	115-1	6.6	8.2	11.2	13.6	—	—
		230-1	3.3	4.1	5.6	6.8	—	—
		230-3	2.2	2.2	2.9	3.4	—	—
		460-3	1.0	1.0	1.4	1.7	—	—
	575-3	0.8	0.8	1.2	1.4	—	—	
<b>50 HZ</b>	230-1	3.8	3.8	5.0	6.2	—	—	
	380-3	1.2	1.2	1.7	2.0	—	—	

## 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. Removable without affecting limit switch settings.

**Drive Reduction:** First-stage heavy-duty 5L V-belt; second-stage #41 chain; output on trolley #48 chain on 1/3 and 1/2 HP; #41 chain on 3/4 and 1 HP.

**Emergency Disconnect:** Spring-loaded for emergency manual operation.

**Wiring Type:** B2, C2, D1 and E2 wiring types are standard and easily set using a selector dial on the Logic 3.0 Control Board (L3). T and TS wiring can be activated with use of a CPS-L or CPS-LN4. Reversing Contactor Units (M) have C2 wiring standard and B2 available by simply moving a jumper wire. Operators are pre-wired to accept a sensing edge, photoelectric sensors, radio controls and most types of access control equipment. Failsafe wiring can be selected with use of a CPS-L, CPS-LN4 or failsafe edge and CPS3 card.

**External Radio Control Terminal:** Quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.

**Bearings:** Ball bearings on output shaft; heavy-duty, oil-filled bushings on reduction shafts.

**Brake:** Solenoid-actuated brake is standard on 3/4 and 1 HP units to prevent coasting of door. Optional on 1/3 and 1/2 HP units.

**Friction Clutch:** Adjustable, helps protect against

major damage to door and operator should the door meet an obstruction.

**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 comes standard and has open/close/stop functionality.

**Quick-Mount Header Bracket:** For fast, swing-up mounting.

**Rail Assembly:** High-strength dual L-rail track with nylon quiet-gliding chain guides on rail spacers for quiet, smooth operation.

## Control Accessories

**CPS® Commercial Protector System®:** (recommended) A “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. An electric or pneumatic sensing device can be added to bottom edge of door.

## Available Plug-in Options for Logic 3.0 (L3)

**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:** Red/green light module provides safety warning prior to close (when using timer-to-close feature). Also supports audio warning devices and includes down mid-stop feature.

**CPS3 Option:** Enables the addition of a second set of photo-eyes or 2- or 4-wire, self-monitoring edge.

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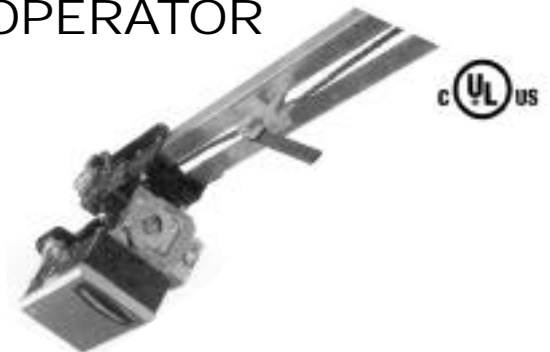
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# GT

## HEAVY INDUSTRIAL-DUTY TROLLEY OPERATOR



**2 Year Warranty**

### Applications:

The model GT continuous-duty door operator is designed for use on standard lift section doors.

### Standard Features:

- Choice of 2 control circuits:
  - Logic 2.0 Control Board (L) available for 115V, 208/230V and 460V
  - Reversing Contractor Circuit (M) features size 0 industrial linear contactor
- High-starting torque continuous-duty motor with overload protection
- 3-button control station
- Type C2 wiring standard, B2 easily field set by moving 1 jumper wire or setting a switch
- Industrial ball bearings on output shaft
- External radio control terminals
- Driven limit switches, fully adjustable
- 24VAC control circuit (M), 5V DC (L)
- Motor removable without affecting limit settings
- Solenoid-actuated disc brake
- Heavy-duty wormgear-in-oil-bath speed reducer
- Industrial-duty adjustable torque limiter
- NEMA1 type electrical enclosure
- Fully adjustable linear-driven limit mechanism
- Trolley track for doors up to 12' high standard with swing-up header bracket
- Quiet-gliding rail spacers
- #41 roller chain drive
- Baked-on high-durability black powdercoat finish
- Door speed approximately 11 to 12 inches per second
- Approximate shipping weight - 160 lbs.

MAXIMUM DOOR AREA (SQ. FT.)						
STANDARD SECTIONAL	—	24 ga. Steel	20 ga. Steel	16 ga. Steel	—	
	Fiberglass Doors	Aluminum Doors	Wood Doors	—	—	
	—	—	24 ga. Steel Insulated	20 ga. Steel Insulated	16 ga. Steel Insulated	
HP	1/2	400	350	320	250	200
	3/4	560	500	450	325	250
	1	625	575	500	400	300
	1-1/2	—	625	550	475	380

**NOTE:** On steel insulated doors, a 24 ga. back panel is assumed. If a heavier back panel is supplied, use the next higher HP rating. A dual trolley modification is recommended for doors 22 ft. or wider.

OPERATOR AMP RATING (full Load)								
		HP	1/2	3/4	1	1-1/2	2	3
VOLTAGE - PHASE	60 HZ	115-1	11.2	11.2	13.6	17.5	—	—
		230-1	5.6	5.6	6.8	8.7	—	—
		208/230-3	3.1	3.1	4.0	6.6	—	—
		460-3	1.4	1.4	1.8	5.0	—	—
		575-3	1.2	1.2	1.4	2.4	—	—
	50 HZ	230-3	3.6	5.0	6.2	8.0	—	—
		380-3	1.7	1.7	2.2	6	—	—

# GT HEAVY INDUSTRIAL-DUTY TROLLEY

## Added Value

- Built-in 3-channel, 315MHz radio receiver accepts up to 23 Security+® or unlimited DIP switch remotes. 3-button remotes can be programmed for open/close/stop operation.
- Maintenance Alert System™ establishes 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-to-Close allows programming in 5-sec or 1-min increments. Commercial or industrial photo-eyes required.
- Thermal motor overload can be easily reset from the 3-button floor level control station

## Reliability & Programming Simplicity

- Switchless motor eliminates stuck start switch and motor malfunctions on single-phase operators
- All high-voltage connections have been removed from the board for safety and ease of service

## Diagnostic LEDs speed installation and troubleshooting

- Motor direction jumper lets you change motor direction by simply moving a jumper

**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.

## Standard Features

**Motor:** Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/2, 3/4, 1 and 1 1/2 HP; single- or three-phase. Removable without affecting limit switch settings.

**Drive Reduction:** 10:1 first stage using heavy-duty gears running in oil bath; cast iron housing; #41 chain second stage; #41 chain on trolley.

**Emergency Disconnect:** Spring-loaded for emergency manual operation.

**Wiring Type:** B2, C2, D1 and E2 wiring types are standard and easily set using a selector dial on the Logic 3.0 Control Board (L3). T and TS wiring can be activated with use of a CPS-L or CPS-LN4. Reversing Contactor Units (M) have C2 wiring standard and B2 available by simply moving a jumper wire. Operators are pre-wired to accept a sensing edge, photo-

electric sensors, radio controls and most types of access control equipment. Failsafe wiring can be selected with use of a CPS-L, CPS-LN4 or failsafe edge and CPS3 card.

**External Radio Control Terminal:** Quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.

**Bearings:** Sealed roller bearings in gear reducer. Flange-mount industrial ball bearings on drive shaft.

**Brake:** Solenoid-actuated brake is standard.

**Clutch:** Heavy duty torque limiter helps protect against major damage to door and operator should the door meet an obstruction.

**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 comes standard and has open/close/stop functionality.

**Quick-Mount Header Bracket:** For fast, swing-up mounting.

**Rail Assembly:** High-strength dual L-rail track with nylon quiet-gliding chain guides on rail spacers for quiet, smooth operation.

## Control Accessories

**CPS® Commercial Protector System®:** (recommended) A “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. An electric or pneumatic sensing device can be added to bottom edge of door.

## Available Plug-in Options for Logic 3.0 (L3)

**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:** Red/green light module provides safety warning prior to close (when using timer-to-close feature). Also supports audio warning devices and includes down mid-stop feature.

**CPS3 Option:** Enables the addition of a second set of photo-eyes or 2- or 4-wire, self-monitoring edge.

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# APT

## LOW-PROFILE APARTMENT HOUSE OPERATOR

**2 Year Warranty**



### Applications:

The model APT door operator is designed for use on standard which require over 100 cycles per day.

### Standard Features:

- Logic 2.0 Control Board (L) available for 115V, 208/230V and 460V
- 1/2 HP, 115V single-phase resilient-mount motor for quiet operation
- Industrial ball bearings on output shaft
- Quiet-gliding rail spacers
- Quick disconnect trolley assembly with autoreconnect feature and nylon inserts for quiet operation
- Type C2 wiring standard, B2 easily field set by setting a switch
- Accepts sensing device and standard residential radio receiver
- Heavy-duty 5LV-belt
- 3-button control station
- Control circuit 5V DC (L)
- Motor removable without affecting limit settings
- NEMA1 type electrical enclosure
- Adjustable friction clutch
- Fully adjustable linear-driven limit mechanism
- Trolley track for doors up to 12' high standard
- #48 roller chain drive
- Baked-on high-durability black powdercoat finish
- Door speed approximately 6 to 7 inches per second
- Approximate shipping weight - 130 lbs.

MAXIMUM DOOR AREA (SQ. FT.)					
<b>STANDARD SECTIONAL</b>	—	24 ga. Steel	20 ga. Steel	16 ga. Steel	—
	—	Aluminum Doors	Wood Doors	—	—
	—	Fiberglass Doors	24 ga. Steel Insulated	20 ga. Steel Insulated	16 ga. Steel Insulated
<b>SQ. FT.</b>	—	250	225	150	100

NOTE: On steel insulated doors, a 24 ga. back panel is assumed.

OPERATOR AMP RATING (full Load)								
		HP	1/2	3/4	1	1-1/2	2	3
<b>VOLTAGE - PHASE</b>	<b>60 HZ</b>	—	—	—	—	—	—	—
		—	—	—	—	—	—	—
		115-1	8.0	—	—	—	—	—
		—	—	—	—	—	—	—
	<b>50 HZ</b>	—	—	—	—	—	—	—



# APT LOW-PROFILE APARTMENT HOUSE OPERATOR

## Standard Features

**Motor:** Continuous-duty high-starting torque motor with instant reverse and overload protection. Available in 1/2 single phase capacitor start motors. Removable without affecting limit switch settings.

**Drive Reduction:** First-stage heavy-duty 4LV-belt; second and third stages #41 chain; output on trolley #48 chain.

**Wiring Type:** All operators are factory preset to C2 wiring providing momentary contact to open and stop, with constant contact to close. Momentary contact to close (B2 wiring) can be easily set. T and TS wiring can be activated with 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. The operator is pre-wired to accept a sensing device, photoelectric sensors, radio controls and most types of access control equipment.

**Maximum Run Timer:** Standard feature that protects against damage to the door and operator. Any time a closing door takes 10 seconds more than its programmed standard cycle time, the door will stop.

**Programmable Mid-Stop:** Allows the door to stop at mid-point during open travel.

**Delay-on-Reverse Circuit:** A one-second delay-on-reverse circuit to prevent premature door and operator wear.

**Low-Profile Design:** Low-profile design can be ceiling-mounted for low headroom applications.

**External Radio Control Terminal:** Quick, convenient connections for retrofitting or adding radio controls on logic or mechanical operators.

**Bearings:** Industrial ball bearings on the output shaft; heavy-duty, oil-filled on reduction shaft

**Friction Clutch:** Adjustable, helps protect against major damage to door and operator should the door meet an obstruction.

**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 comes standard and has open/close/stop functionality.

**Rail Assembly:** High-strength dual L-rail track and quick-mount header bracket which provides fast, swing-up installation.

## Control Accessories

**CPS® Commercial Protector System®:** (recommended) A “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.

## Available Plug-in Options for Logic 3.0 (L3)

**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:** Red/green light module provides safety warning prior to close (when using timer-to-close feature). System also supports audio warning devices and includes down mid-stop feature.

**CPS3 Option:** Enables the addition of a second set of photo-eyes or 2- or 4-wire, self-monitoring edge.

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# SPECIFICATIONS

## LGJ LIGHT-DUTY GEAR-REDUCED OPERATOR

### Applications:

The model LGJ door operator is designed for use on rolling grilles and shutters and on small rolling doors. Maximum recommended duty cycle: 7 cycles per hour.

### Standard Features:

- Internal door lock sensing circuit
- 3-button control station
- Solid-state control and motor drive
- High-starting torque motor with overload protection
- 24VAC control circuit
- Long-life dry-type capacitor
- Heavy-duty wormgear-in-oil-bath speed reducer
- Prewired to accept sensing devices
- Fully adjustable linear-driven limit switch mechanism
- Motor removable without affecting limit settings
- NEMA1 type electrical enclosure
- Floor level disconnect for emergency manual operation
- 41B32 door sprocket and #41 drive chain, included
- Baked-on high-durability black powdercoat finish
- Approximate shipping weight - 35 lbs.

## 2 Year Warranty



# LGJ LIGHT-DUTY GEAR REDUCED OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)					
STANDARD SECTIONAL	—	24 ga. Steel	22 ga. Steel	20 ga. 18 ga. Steel	16 ga. Steel
	—	Aluminum Grills	Aluminum Doors	Steel Grills	—
	—	—	—	—	—
SQ. FT.	—	65	55	45	40

OPERATOR AMP RATING (full Load)								
VOLTAGE - PHASE	60HZ	HP	1/4	3/4	1	1-1/2	2	3
		—	—	—	—	—	—	—
50 HZ	115-1	5.0	—	—	—	—	—	—
	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—

## Standard Features

**Motor:** Powerful 1/4 HP, 115V single phase motor with instant reverse and internal automatic reset thermal overload. Removable without affecting limit switch settings.

**Wiring Type:** The Model LGJ is easily wired for C2 or B2 wiring. The operator is pre-wired to accept a sensing device, photoelectric control, radio controls and most types of access control equipment.

**Operator/Motor Control:** Solid State Circuit (G2) with Door Lock Sensing Circuit (NEMA 1 enclosure).

### Control Circuit: 24V NEC Class 2.

**Floor Level Disconnect:** Floor level disconnect provides emergency manual operation.

**Drive Reduction:** Heavy-duty wormgear-in-oil-bath speed reducer.

**Pushbutton Station:** 3-button station for OPEN/CLOSE/STOP functions is standard for all operators. Controls with one, two and three buttons are available.

**Construction:** NEMA 1 Type electrical box with durable baked-on powder coat finish. Easily converted for right or left mounting.

**Door Lock Sensing Circuit:** The Model LGJ includes a speed sensor in the electrical enclosure and a sensing circuit which sends a signal to stop the motor if the door jams, such as would be caused by failure to release the lockbar of a rolling grille before starting the operator. In addition to stopping the motor, if the door or grille is in fully closed position, it will drive the motor in the opposite direction for approximately 1

inch of door travel. This releases the pressure on the lockbar thus allowing the lock to be easily opened.

## Control Accessories and Options

**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.

**Radio Control:** Universal transmitters and receivers are available to signal the operator to open and/or close door.

**Emergency Egress Device:** Attractive faceplate mounts flush on wall and contains handle to disconnect operator from a grille, thereby allowing the grille to be opened manually or by spring tension.

**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.

**CPS® Commercial Protector System:** (Recommended) An inexpensive "non-contact" photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.

- Safety of a non-contact infrared reversing sensor
- Fast and easy-to-install
- Patented electrical interface monitors system status at all times
- LED indicators for quick alignment
- One size fits all (for doors up to 30 ft. wide)

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# SPECIFICATIONS

## MGJ MEDIUM-DUTY GEAR-REDUCED OPERATOR

### Applications:

The model MGJ door operator is designed for use on industrial sectional doors with high or vertical lift and on small rolling doors, shutters and grilles. Maximum recommended duty cycle: 12 cycles per hour.

### Standard Features:

- 3-button control station
- High-starting torque motor with overload protection
- 24VAC control circuit
- Long-life dry-type capacitor
- Industrial across-the-line reversing starter (3 only)
- Heavy-duty wormgear-in-oil-bath speed reducer
- Type C2 wiring standard, B2 easily field set by moving 1 jumper wire
- Prewired to accept sensing devices
- Fully adjustable linear-driven limit switch mechanism
- Motor removable without affecting limit settings
- NEMA1 type electrical enclosure
- Floor level disconnect for emergency manual operation
- 41B32 door sprocket and #41 drive chain, included
- Baked-on high-durability black powdercoat finish
- Approximate shipping weight - 58 lbs.

## 2 Year Warranty



MAXIMUM DOOR AREA (SQ. FT.)						
<b>ROLLING</b>	24 ga. Steel	22 ga. Steel	—	20 ga. 18 ga. Steel	16 ga. Steel	—
	Alum. Grills	Alum. Doors	—	Steel Grills	—	—
<b>SECTIONAL</b>	—	24 ga. 22 ga. Steel	20 ga. Steel	—	16 ga. Steel	—
	Fiber-glass	Alum. Doors	Wood Doors	—	—	—
	—	—	24 ga. Steel Insul.	—	20 ga. Steel Insul.	16 ga. Steel Insul.
<b>SQ. FT.</b>	320	280	260	225	200	150

OPERATOR AMP RATING (full Load)								
		HP	1/2	3/4	1	1-1/2	2	3
<b>VOLTAGE - PHASE</b>	<b>60HZ</b>	115-1	6.5	—	—	—	—	—
		—	—	—	—	—	—	—
		230-3	2.1	—	—	—	—	—
		—	—	—	—	—	—	—
<b>50 HZ</b>	460-3	1.1	—	—	—	—	—	
	230-1	3.0	—	—	—	—	—	
	380-3	1.3	—	—	—	—	—	

**NOTE:** On steel insulated doors, a 24 ga. back panel is assumed.

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# SPECIFICATIONS

## LGO MEDIUM-DUTY GEAR-REDUCED OPERATOR

### Applications:

The model LGO door operator is designed for use on industrial sectional doors with high or vertical lift and on small rolling doors, shutters and grilles. Maximum recommended duty cycle: 12 cycles per hour.

### Standard Features:

- 3-button control station - Note: Normally open stop button control station
- High-starting torque motor with overload protection
- 24VAC control circuit
- Type B2 wiring standard, D1 easily field set by simple programming\*
- Internal door lock sensor, adjustable
- Built-in radio receiver
- Fully adjustable linear-driven limit switch mechanism
- Motor removable without affecting limit settings
- NEMA1 type electrical enclosure
- Floor level disconnect for emergency manual operation
- 41B32 door sprocket and #41 drive chain, included
- Baked-on high-durability black powdercoat finish
- Approximate shipping weight - 45 lbs.

\* **Special note:** In order to connect a 2-wire sensing edge, you must order the optional LGOSE Wiring Kit.

## 2 Year Warranty



# LGO MEDIUM-DUTY GEAR-REDUCED OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)						
<b>ROLLING</b>	24 ga. Steel	22 ga. Steel	—	20 ga. 18 ga. Steel	16 ga. Steel	—
	Alum. Grills	Alum. Doors	—	Steel Grills	—	—
<b>SECTIONAL</b>	—	24 ga. 22 ga. Steel	20 ga. Steel	—	16 ga. Steel	—
	Fiber-glass	Alum. Doors	Wood Doors	—	—	—
	—	—	24 ga. Steel Insul.	—	20 ga. Steel Insul.	—
<b>SQ. FT.</b>	180	165	150	150	110	—

OPERATOR AMP RATING (full Load)								
		HP	1/2	3/4	1	1-1/2	2	3
<b>VOLTAGE - PHASE</b>	<b>60HZ</b>	—	—	—	—	—	—	—
		—	—	—	—	—	—	—
		115-1	5.0	—	—	—	—	—
	<b>50 HZ</b>	—	—	—	—	—	—	—
		—	—	—	—	—	—	—
		—	—	—	—	—	—	—

**NOTE:** On steel insulated doors, a 24 ga. back panel is assumed.

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# SPECIFICATIONS

## MJ MEDIUM-DUTY JACKSHAFT OPERATOR

### Applications:

The model MJ door operator is designed for use on industrial sectional doors with high or vertical lift and on small rolling doors and grilles. Maximum recommended duty cycle: 12 cycles per hour.

### Standard Features:

- 3-button control station - Note: Normally open stop button control station
- High-starting torque motor with overload protection
- Long-life dry-type capacitor
- Solenoid brake, standard
- Type C2 wiring standard, B2 easily field set by moving 1 jumper wire
- Prewired to accept sensing devices
- 24VAC control circuit
- Fully adjustable linear-driven limit switch mechanism
- Motor removable without affecting limit settings
- External radio control terminals
- NEMA1 type electrical enclosure
- Adjustable friction clutch
- Efficient V-belt primary drive, chain/sprocket secondary
- Floor level disconnect for emergency manual operation
- Baked-on high-durability black powdercoat finish
- Door speed approximately 8 to 9 inches per second
- Approximate shipping weight - 55 lbs.

## 2 Year Warranty



# MJ MEDIUM-DUTY JACKSHAFT OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)						
<b>ROLLING</b>	24 ga. Steel	22 ga. Steel	—	20 ga. 18 ga. Steel	16 ga. Steel	—
	Alum. Grills	Alum. Doors	—	Steel Grills	—	—
<b>SECTIONAL</b>	—	24 ga. 22 ga. Steel	20 ga. Steel	—	16 ga. Steel	—
	Fiber-glass	Alum. Doors	Wood Doors	—	—	—
	—	—	24 ga. Steel Insul.	—	20 ga. Steel Insul.	16 ga. Steel Insul.
<b>SQ. FT.</b>	320	275	250	200	160	120

OPERATOR AMP RATING (full Load)								
		HP	1/2	3/4	1	1-1/2	2	3
<b>VOLTAGE - PHASE</b>	<b>60HZ</b>	—	—	—	—	—	—	—
		—	—	—	—	—	—	—
		115-1	6.5	—	—	—	—	—
		—	—	—	—	—	—	—
	<b>50 HZ</b>	230-1	3.0	—	—	—	—	—
		—	—	—	—	—	—	—

**NOTE: 1.** The MJ operator is not recommended for use on large or high rolling doors without chain hoist modification (see Model MH). **2.** On steel insulated doors, a 24 ga. back panel is assumed.

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# SPECIFICATIONS

## J INDUSTRIAL-DUTY JACKSHAFT OPERATOR

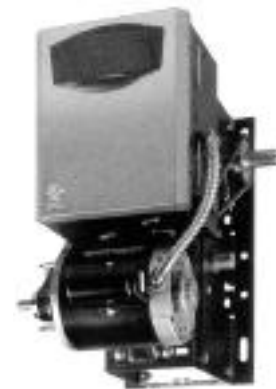
### Applications:

The model J continuous-duty door operator is designed for use on industrial sectional doors with high or vertical lift and on small rolling doors and grilles.

### Standard Features:

- Choice of 2 control circuits:
  - Logic 2.0 Control Board (L) available for 115V, 208/230V and 460V
  - Reversing Contractor Circuit (M) features size 0 industrial linear contactor
- High-starting torque continuous-duty motor with overload protection
- Heavy-duty 5LV-belt
- 3-button control station
- Industrial ball bearings on output shaft
- Positive lock mechanical system acts as a holding brake
- Type C2 wiring standard, B2 easily field set by moving 1 jumper wire or setting a switch
- Prewired to accept sensing devices
- 24V control circuit (M), 5v DC (L)
- Fully adjustable linear-driven limit switch mechanism
- Efficient V-belt primary drive, chain/sprocket secondary
- Motor removable without affecting limit settings
- External radio control terminals
- NEMA1 type electrical enclosure
- Adjustable friction clutch
- #50 drive chain
- Floor level disconnect for emergency manual operation
- Baked-on high-durability black powdercoat finish
- Door speed approximately 8 to 9 inches per second
- Approximate shipping weight - 95 lbs.

## 2 Year Warranty



MAXIMUM DOOR AREA (SQ. FT.)						
<b>ROLLING</b>	24 ga. Steel	22 ga. Steel	—	20 ga. 18 ga. Steel	16 ga. Steel	—
	Alum. Grills	Alum. Doors	—	Steel Grills	—	—
<b>SECTIONAL</b>	—	24 ga. 22 ga. Steel	20 ga. Steel	—	16 ga. Steel	—
	Fiber-glass	Alum. Doors	Wood Doors	—	—	—
	—	—	24 ga. Steel Insul.	—	20 ga. Steel Insul.	16 ga. Steel Insul.
<b>HP</b>	<b>1/3</b>	310	285	260	210	175
	<b>1/2</b>	400	350	320	280	250
	<b>3/4</b>	560	500	450	380	325
	<b>1</b>	640	6250	560	475	400

**NOTE: 1.** The J operator is not recommended for use on large or high rolling doors without chain hoist modification (see Model H). **2.** On steel insulated doors, a 24 ga. back panel is assumed. If a heavier back panel is supplied, use the next higher HP rating. For doors 22 ft. wide by 20 ft. high and larger, call ACI.

OPERATOR AMP RATING (full Load)								
<b>VOLTAGE - PHASE</b>		HP	1/3	1/2	3/4	1	1-1/2	2
		<b>60HZ</b>	115-1	6.6	8.2	11.2	13.6	—
230-1	3.3		4.1	5.6	6.8	—	—	
208/230-3	2.2		2.2	2.9	3.4	—	—	
460-3	1.0		1.0	1.4	1.7	—	—	
575-3	0.8		0.8	1.2	1.4	—	—	
<b>50 HZ</b>	230-3	3.8	3.8	5.0	6.2	—	—	
	380-3	1.2	1.2	1.7	2.0	—	—	

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# SPECIFICATIONS

## DJ/DH INDUSTRIAL-DUTY OPERATORS WITH INTERNAL DOOR LOCK SENSORS

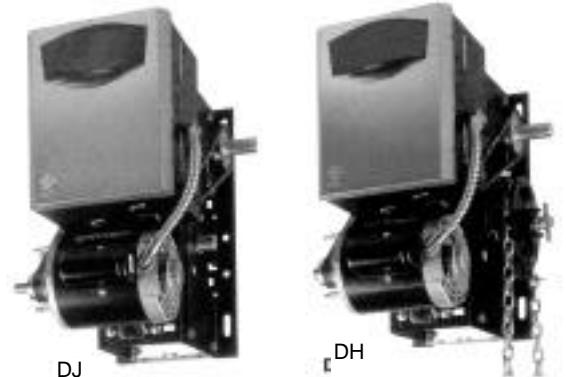
### Applications:

The model DJ and the model DH door operators are designed for use on rolling doors and grilles. They feature an internal door lock sensor which detects if the door lock is engaged, stopping operation to eliminate jamming and damage to the door and operator. There is no longer any need for wiring guide-mounted interlocks.

### Standard Features:

- Reversing Contractor Circuit (M) features size 0 industrial linear contactor
- High-starting torque continuous-duty motor with overload protection
- Heavy-duty 5LV-belt
- 3-button control station
- Industrial ball bearings on output shaft
- Positive lock mechanical system acts as a holding brake
- Type D1 wiring standard
- Prewired to accept sensing devices
- External radio control terminals
- 24V control circuit (M)
- Fully adjustable linear-driven limit switch mechanism
- Efficient V-belt primary drive, chain/sprocket secondary
- Motor removable without affecting limit settings
- External radio control terminals
- NEMA1 type electrical enclosure
- Adjustable friction clutch
- #50 drive chain
- Floor level disconnect for emergency manual operation
- Baked-on high-durability black powdercoat finish
- Door speed approximately 8 to 9 inches per second
- Approximate shipping weight - 95 lbs.

## 2 Year Warranty



DJ

DH

# DJ/DH INDUSTRIAL-DUTY OPERATORS w/INTERNAL DOOR LOCK SENSORS

MAXIMUM DOOR AREA (SQ. FT.)							
ROLLING	24 ga. Steel	22 ga. Steel	—	20 ga. 18 ga. Steel	16 ga. Steel	—	
	Alum. Grills	Alum. Doors	—	Steel Grills	—	—	
SECTIONAL	—	24 ga. 22 ga. Steel	20 ga. Steel	—	16 ga. Steel	—	
	Fiber-glass	Alum. Doors	Wood Doors	—	—	—	
	—	—	24 ga. Steel Insul.	—	20 ga. Steel Insul.	16 ga. Steel Insul.	
HP	1/3	310	285	260	210	175	125
	1/2	400	350	320	280	250	200

**NOTE:** On steel insulated doors, a 24 ga. back panel is assumed. If a heavier back panel is supplied, use the next higher HP rating. For doors 22 ft. wide by 20 ft. high and larger, call ACI.

OPERATOR AMP RATING (full Load)								
		HP	1/3	1/2	3/4	1	1-1/2	2
VOLTAGE - PHASE	60HZ	115-1	6.6	8.2	—	—	—	—
		230-1	3.3	4.1	—	—	—	—
		208/230-3	2.2	2.2	—	—	—	—
	50 HZ	460-3	1.0	1.0	—	—	—	—
		575-3	0.8	0.8	—	—	—	—
		230-3	3.8	3.8	—	—	—	—
380-3	1.2	1.2	—	—	—	—		

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# SPECIFICATIONS

## MH MEDIUM-DUTY HOIST OPERATOR

### Applications:

The model MH door operator is designed for use on small rolling doors and grilles and on sectional doors with high or vertical lift. Maximum recommended duty cycle: 12 cycles per hour.

### Standard Features:

- Floor level chain hoist with electrical interlock for emergency manual door operation
- 3-button control station
- High-starting torque continuous-duty motor with overload protection
- Long-life dry-type capacitor
- Solenoid brake standard
- Type C2 wiring standard, B2 easily field set by moving 1 jumper wire
- Prewired to accept sensing devices
- 24VAC control circuit
- Fully adjustable linear-driven limit mechanism
- Motor removable without affecting limit settings
- External radio control terminals
- NEMA1 type electrical enclosure
- Adjustable friction clutch
- Efficient V-belt primary drive, chain/sprocket secondary
- Baked-on high-durability black powdercoat finish
- Door speed approximately 8 to 9 inches per second
- Approximate shipping weight - 70 lbs.

## 2 Year Warranty



# MH MEDIUM-DUTY HOIST OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)						
<b>ROLLING</b>	24 ga. Steel	22 ga. Steel	—	20 ga. 18 ga. Steel	16 ga. Steel	—
	Alum. Grills	Alum. Doors	—	Steel Grills	—	—
<b>SECTIONAL</b>	—	24 ga. 22 ga. Steel	20 ga. Steel	—	16 ga. Steel	—
	Fiber-glass	Alum. Doors	Wood Doors	—	—	—
	—	—	24 ga. Steel Insul.	—	20 ga. Steel Insul.	16 ga. Steel Insul.
<b>SQ. FT.</b>	320	275	250	200	160	120

**NOTE:** On steel insulated doors, a 24 ga. back panel is assumed.

OPERATOR AMP RATING (full Load)								
		HP	1/2	3/4	1	1-1/2	2	3
<b>VOLTAGE - PHASE</b>	<b>60 HZ</b>	—	—	—	—	—	—	—
		—	—	—	—	—	—	—
		115-1	6.5	—	—	—	—	—
	<b>50 HZ</b>	—	—	—	—	—	—	—
		230-1	3.0	—	—	—	—	—
		—	—	—	—	—	—	—

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# SPECIFICATIONS

## H INDUSTRIAL-DUTY HOIST OPERATOR

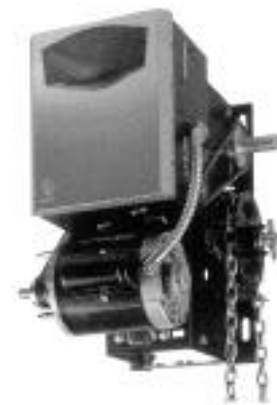
### Applications:

The model H continuous-duty door operator is designed for use on rolling doors and grilles and on industrial sectional doors with high or vertical lift.

### Standard Features:

- Choice of 2 control circuits:
  - Logic 2.0 Control Board (L) available for 115V, 208/230V and 460V
  - Reversing Contractor Circuit (M) features size 0 industrial linear contactor
- Floor level chain hoist with electrical interlock for emergency manual door operation
- High-starting torque continuous-duty motor with overload protection
- Heavy-duty 5LV-belt
- 3-button control station
- Industrial ball bearings on output shaft
- Positive lock mechanical system acts as a holding brake
- Type C2 wiring standard, B2 easily field set by moving 1 jumper wire or setting a switch
- Prewired to accept sensing devices
- External radio control terminals
- 24VAC control circuit (M), 5v DC (L)
- Fully adjustable linear-driven limit mechanism
- Motor removable without affecting limit settings
- NEMA1 type electrical enclosure
- Adjustable friction clutch
- Efficient V-belt primary drive, chain/sprocket secondary
- #50 drive chain
- Baked-on high-durability black powdercoat finish
- Door speed approximately 8 to 9 inches per second
- Approximate shipping weight - 110 lbs.

## 2 Year Warranty



# H INDUSTRIAL-DUTY HOIST OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)						
<b>ROLLING</b>	22 ga. Steel	22 ga. Steel	—	20 ga. 18 ga. Steel	16 ga. Steel	—
	Alum. Grills	Alum. Doors	—	Steel Grills	—	—
<b>SECTIONAL</b>	—	24 ga. 22 ga. Steel	20 ga. Steel	—	16 ga. Steel	—
	Fiber-glass	Alum. Doors	Wood Doors	—	—	—
	—	—	24 ga. Steel Insul.	—	20 ga. Steel Insul.	16 ga. Steel Insul.
<b>HP</b>	<b>1/3</b>	310	285	260	210	175
	<b>1/2</b>	400	350	320	280	250
	<b>3/4</b>	560	500	450	380	325
	<b>1</b>	640	625	560	475	400

**NOTE:** On steel insulated doors, a 24 ga. back panel is assumed. If a heavier back panel is supplied, use the next higher HP rating. For doors 22 ft. wide by 20 ft. high and larger, call ACI.

OPERATOR AMP RATING (full Load)								
		HP	1/3	1/2	3/4	1	1-1/2	2
<b>VOLTAGE - PHASE</b>	<b>60HZ</b>	115-1	6.6	8.2	11.2	13.6	—	—
		230-1	3.3	4.1	5.6	6.8	—	—
		208/230-3	2.2	2.2	2.9	3.4	—	—
		460-3	1.0	1.0	1.4	1.7	—	—
	575-3	0.8	0.8	1.2	1.4	—	—	
<b>50 HZ</b>	230-1	3.8	3.8	5.0	6.2	—	—	
	380-3	1.2	1.2	1.7	2.0	—	—	

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# SPECIFICATIONS

## GH HEAVY INDUSTRIAL- DUTY GEAR-REDUCED OPERATOR

### Applications:

The model GH continuous-duty door operator is designed for use on rolling doors and grilles and on industrial sectional doors with high or vertical lift.

### Standard Features:

- Choice of 2 control circuits:
  - Logic 2.0 Control Board (L) available for 115V, 208/230V and 460V
  - Reversing Contractor Circuit (M) features size 0 industrial linear contactor
- Floor level chain hoist with electrical interlock for emergency manual door operation
- High-starting torque continuous-duty motor with overload protection
- Heavy-duty wormgear-in-oilbath speed reducer
- 3-button control station
- Hoist wheel is easily moved to right or left hand side of unit, eliminating the need to order left or right hand mounting
- Solenoid brake standard
- 24VAC control circuit (M), 5V DC (L)
- Type C2 wiring standard, B2 easily field set by moving 1 jumper wire or setting a switch
- Prewired to accept sensing devices
- External radio control terminals
- Fully adjustable linear-driven limit mechanism
- Motor removable without affecting limit settings
- NEMA1 type electrical enclosure
- 50B40 door sprocket and #50 drive chain – standard on 1/2 thru 1 HP models.  
50B60 door sprocket and #50 drive chain – standard on 1-1/2 and 2 HP models.  
80B60 1-3/4" diameter with 3/8" keyway door sprocket and #80 drive chain – standard on 3 HP models
- Baked-on high-durability black powdercoat finish
- Door speed approximately 8 to 9 inches per second
- Approximate shipping weight - 110 lbs.

## 2 Year Warranty



# GH HEAVY INDUSTRIAL-DUTY GEAR-REDUCED OPERATOR

MAXIMUM DOOR AREA (SQ. FT.)							
ROLLING	24 ga. Steel	22 ga. Steel	—	20 ga. 18 ga. Steel	16 ga. Steel	—	
	Alum. Grills	Alum. Doors	—	Steel Grills	—	—	
SECTIONAL	—	24 ga. 22 ga. Steel	20 ga. Steel	—	16 ga. Steel	—	
	Fiber-glass	Alum. Doors	Wood Doors	—	—	—	
	—	—	24 ga. Steel Insul.	—	20 ga. Steel Insul.	16 ga. Steel Insul.	
HP	1/2	325	300	275	250	225	175
	3/4	480	430	390	340	275	225
	1	650	560	500	430	325	300
	1-1/2	—	—	680	540	425	375
	2	—	—	—	640	560	460
	3	—	—	—	875	840	620
5	Call for specifications						

OPERATOR AMP RATING (full Load)								
VOLTAGE - PHASE	60 HZ	HP	1/2	3/4	1	1-1/2	2	3
		115-1	11.2	11.2	13.6	17.5	—	—
230-1	5.6	5.6	6.8	8.7	—	—	—	
208/230-3	3.1	3.1	4.0	6.6	6.6	9.0	—	
460-3	1.4	1.4	1.8	3.1	3.1	4.3	—	
575-3	1.2	1.2	1.4	2.5	2.5	—	—	
50 HZ	230-1	3.6	5.0	6.2	8.0	—	—	
	380-3	1.7	1.7	2.2	3.7	3.7	5.4	

**NOTE:** On steel insulated doors, a 24 ga. back panel is assumed. If a heavier back panel is supplied, use the next higher HP rating. For doors 22 ft. wide by 20 ft. high and larger, call ACI.

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