Specification Sheet

MGH



MGH, a very heavy duty WORM GEAR operator for industrial, high & vertical lift sectional doors or rolling doors and grilles. It can be wall mounted on either side of the door. It incorporates a chain hoist for manual operation.



Standard Features

Motor: 60Hz high starting torque, continuousduty industrial type, 1 phase capacitor start or 3 phase motor, open drip proof with totally enclosed ends, protected against overload. Also available with 50Hz 220V 1 phase and 380V 3 phase motor, consult inside sales.

Reduction: worm gear in oil bath reducer with air breather and sealed ball bearings. Output shaft is 1 1/4" with 1/4" keyway up to 1.5HP, 1 3/8" output shaft with 5/16" keyway above 1.5HP. Cast iron flanged pillow block bearings on output shaft. Output shaft speed: 43 rpm.

Drive: #50 roller chain with a 50B12 sprocket on operator drive shaft, 50B15 sprocket on operator drive shaft above 1.5HP (#60 roller chain optional). Door sprocket selected for a door travel of 6"/s to 12"/s.

Brake: electrically activated drum type solenoid brake. Option: brake motor.

Manual Operation: chain hoist for manual operation. Hand chain on right is standard. An electrical interlock disconnects power to the motor operator when manual operation is engaged (floor level engagement device).

Electrical Enclosure: all electrical components are in a NEMA 1 enclosure.

Limit Switches: rotary-type with oil-impregnated steel cams, commercial grade switches. Systems are enclosed in electrical controx box and limit shaft is supported by ball bearings. Remains in time when there is a manual operation or after the motor has been removed.

Corrosion Protection: frame and control enclosure protected by a baked on, long lasting enamel finish.

Mounting: right or left wall mounting.

2 Year Warranty





In compliance with UL 325 CSA 22.2/247

Operator Range

Current Consumption (Amp.)

| Horse Power | 115V 1 Ph | 230V 1Ph | 208/ 230V 3 Ph | 460V 3 Ph | 575V 3 Ph | |
|----------------|--------------|-------------|----------------------|--------------|--------------|-------------------|
| 1/2 | 9.0 | 4.5 | 2.2 | 1.1 | - | o o |
| 3/4 | 11.2 | 5.6 | 3.2 | 1.5 | 1.2 | delin |
| 1 | 13.6 | 6.8 | 3.7 | 1.7 | 1.4 | al Gui |
| 1-1/2 | 19.6* | 9.8 | 5.3 | 2.5 | 2.0 | General Guideline |
| 2 | - | - | 6.5* | 3.1* | 2.5* | ľ |
| 3 | - | - | 8.5* | 4.1* | 3.3* | |
| 5 | - | - | 16.7* | 7.6* | 6.1* | |

^{*} ECB not available.

Motor Control

Contactor Units: 24VAc control circuit, 40VA class II transformer, fuse protected on output, heavy-duty across-the-line linear reversing contactor with mechanical interlock. C2 wiring is standard. B2 can be set very easily by moving one wire. Available options: delay on reverse, timer to close, double limits, etc...

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ECB Units: 24Vpc relaying and 5Vpc logic circuit with a 40VA class II transformer, non-volatile memory. Available features: 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close, programmable advance close system, test buttons, reverse wiring detection and door lock sensor. Operating mode selectable on site: C2, B2, D1, E2, T or TS.

Main Options

Control Accessories: terminal strip allows for the connection of 3-button stations (one supplied with the operator), sensing edges, photo cells, one push button radio control (external strip), ceiling pull and key switches, loop detectors, external interlocks. Fuse protected 24Vac output is available for accessory power supply.

Friction Clutch: easily adjustable slip clutch, ideally positioned on output shaft. Recommended for sectional doors.

Environmental Modifications: NEMA 4/12, NEMA 4X and NEMA 7/9 enclosures.

Mechanical Accessories: chain spreader, friction clutch, hoist left mount, etc..., consult inside sales.

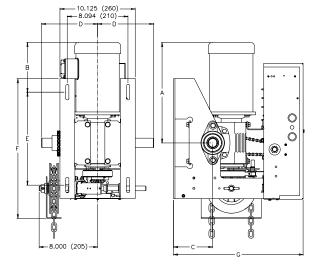
Motor Selection

Maximum Size of Door in Square Feet

| | Rolling Doors | | | Sectional Doors | | | | | | | |
|----------------|-----------------|--------------|-------------------------------|---------------------------|------------------------------|-------------------|-----------------------------|--|-------------------------------|-------------|-------------------|
| Horse Power | Insulated Steel | 16 ga. Steel | Steel Grilles 20 ga. Steel | Alu. Door 22 ga. Steel | Alu. Grilles 24 ga. Steel | Steel 18 ga. ins. | Steel 18 ga. 20 ga. ins. | Wood Steel 20 ga. 22 & 24 ga. ins. | Aluminum Steel 22 & 24 ga. | Fiber Glass | General Guideline |
| 1/2 | 157 | 236 | 260 | 319 | 358 | 196 | 245 | 314 | 343 | 392 |) leral |
| 3/4 | 206 | 294 | 358 | 451 | 515 | 270 | 319 | 441 | 490 | 549 | Ger |
| 1 | 255 | 358 | 446 | 574 | 613 | 294 | 392 | 490 | 564 | 613 | |
| 1-1/2 | 353 | 486 | 633 | ı | - | 373 | 466 | 549 | 613 | - | |
| 2 | 451 | 613 | - | - | - | - | - | - | - | - | |

Dimensions

Clearance: side room required 17" (432 mm)
with friction clutch up to 1.5 HP, add: 2.375" (60 mm)
with friction clutch above 1.5 HP, add: 1.875" (48 mm)



| | UP TO 1,5 HP | 2 TO 3 HP |
|---|-------------------------|-------------------|
| Α | * 17,125 (435) | * 20,750 (530) |
| В | * 10.375 (265) | * 14,000 (360) |
| С | 5,250 (1 <i>3</i> 5) | 5,875 (150) |
| D | 7,500 (195) | 8,000 (205) |
| Ε | 12.375 (315) | 12.625 (325) |
| F | 16,000 (410) | 15,875 (405) |
| G | 17,500 (445) | 18,875 (480) |

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Approx. shipping weight: 137 lbs - 62 kg



^{*} General guideline; can vary depending on the motor used for order