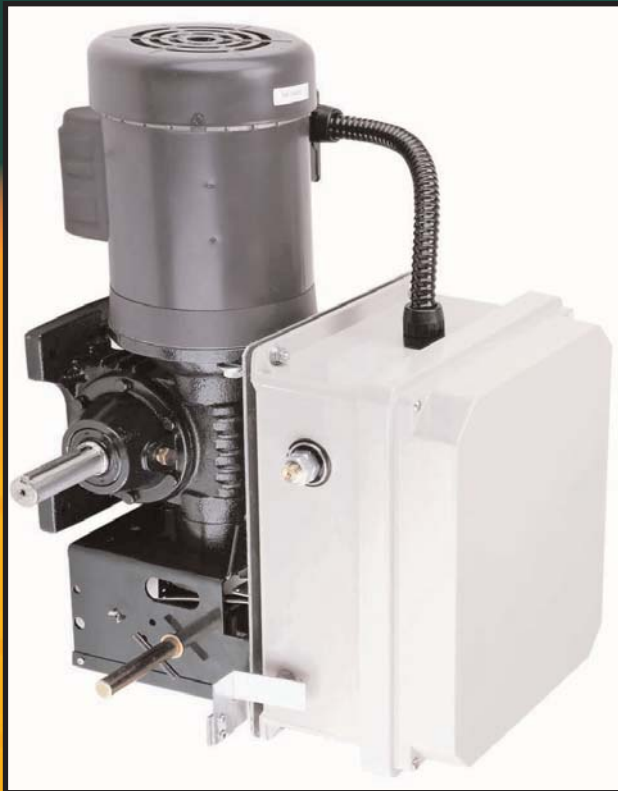


Specification Sheet

GH



Nema 4/12 & 4X modifications

- Includes damp environment/oiltight/dust tight components or corrosion-resistant components
- Nema 4/12 or Nema 4X control enclosure with hinged cover
- Solenoid brake
- Manual chain hoist with electrical cut-out

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

The Nema 4/12 modification is used in areas where dust, water spray, oil leaks or any other type of condensation is present. The Nema 4X modification provides additive protection against corrosive environments.

Manaras®

• Standard Features

Motor: 60 Hz, high starting torque, continuous-duty single phase capacitor start or 3 phase motor, totally enclosed (TEFC or TENV), protected against overload.

Reduction: 45:1 worm gear in oil bath reducer with air breather and sealed ball bearings. Output shaft is 1" with 1/4" keyway up to 1HP, 1 1/4" output shaft with 1/4" keyway above 1HP. Output shaft speed: 38 rpm.

Drive: #50 roller chain with a 50B12 sprocket on operator drive shaft. Door sprocket selected for a door travel of 6"/s to 12"/s.

Brake: electrically activated drum type solenoid brake.

Manual Operation: chain hoist with electrical cut-off and floor level engagement device for manual operation. Hand chain on right or left .

Electrical Enclosure: all electrical components are in a Nema 4/12 or Nema 4X enclosure. Electrical enclosure cover is hinged.

Limit Switches: rotary-type with oil-impregnated steel cams, commercial grade switches. Remains in time when there is a manual operation or after the motor has been removed.

Corrosion Protection: frame protected by a long lasting enamel finish. Fiber glass control box. All shafts protected by yellow chromate coating. Washdown duty electrical motor for Nema 4X, with epoxy finish and neoprene gaskets.

Mounting: wall mounted, vertical front of hood mounted or horizontal top of hood mounted. On the right or on the left of the door. The use of a wall mounting bracket is recommended.

• Motor Control

Contactors 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...

or

ECB Units: 24Vdc relaying and 5Vdc 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 connection of 3-button stations (one supplied with the operator), sensing edges, photo cells, one push-button radio control, ceiling pull and key switches, loop detectors, external interlocks. 2A 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.

Mechanical Accessories: wall mounting bracket, hood mounting angle brackets, chain spreader, etc..., consult inside sales.

• Motor Selection

Maximum Size of Door In Square Feet

Horse Power	Rolling Doors					Sectional Doors				
	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
1/2	157	236	260	319	358	196	245	314	343	392
3/4	206	294	358	451	515	270	319	441	490	549
1	255	358	446	574	613	294	392	490	564	613
1-1/2	353	486	633	-	-	373	466	549	613	-
2	451	613	-	-	-	-	-	-	-	-

General Guideline

2 Year Warranty



• Operator Range

Current Consumption (Amp.)

Horse Power	115V 1 Ph	230V 1Ph	208/230V 3 Ph	460V 3 Ph	575V 3 Ph
	1/2	6.6	3.3	2.2	1.1
3/4	11.0	5.5	2.8	1.4	1.1
1	13.4	6.7	3.3	1.6	1.1
1-1/2	18.0	9.0	4.8	2.4	2.0
2	-	-	6.0	2.9	2.3

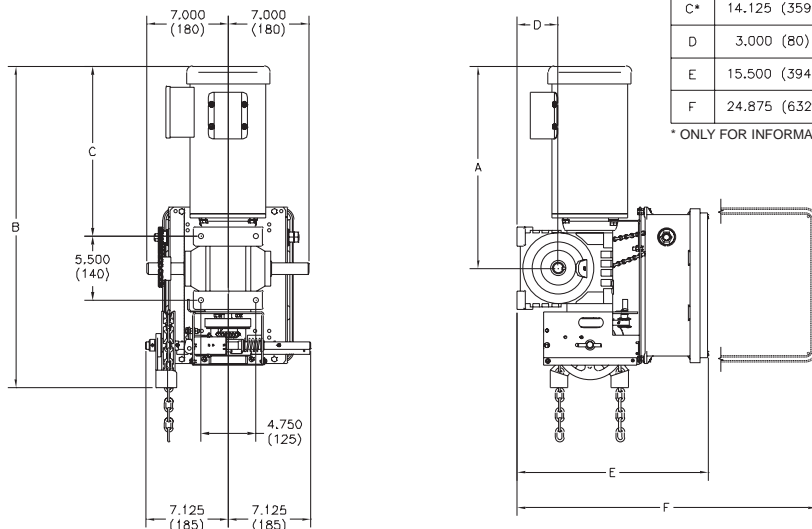
General Guideline

Horse Power	115V 1 Ph	230V 1Ph	208/230V 3 Ph	460V 3 Ph	575V 3 Ph
	1/2	8.8	4.4	2.1	0.8
3/4	11.0	5.5	2.7	1.1	0.9
1	12.8	6.4	3.5	1.6	1.3
1-1/2	-	9.0	4.6	2.1	2.3
2	-	-	6.5	3.1	3.0

General Guideline

• Dimensions

Clearance: Side room required 15" (381 mm)
With friction clutch add: 1.25" (32 mm)



	UP TO 1 HP	1.5 TO 2 HP
A*	16.875 (429)	17.625 (450)
B*	27.25 (693)	27.938 (710)
C*	14.125 (359)	14.875 (380)
D	3.000 (80)	3.500 (90)
E	15.500 (394)	16.750 (426)
F	24.875 (632)	25.875 (658)

* ONLY FOR INFORMATION - CAN VARY

Approx. shipping weight: 119 lbs - 54 kg for 1/2HP 115V GHW model