

Standard Features

■ Motor

60Hz high starting torque, continuous-duty industrial type, single phase capacitor start or 3-phase motor, open drip proof, protected against overload. Also available with 50Hz 220V 1 phase and 380V 3 phase motor, consult inside sales.

■ Reduction

20:1 worm gear in oil bath reducer with air breather and sealed ball bearings. Additional step by #41 chain and sprockets. Output shaft is 1", supported by ball bearings or pillow block bearings (≥ 2 HP). Output shaft speed: 90 rpm for a door travel of 9"/s (1/2 and 3/4HP), 66 rpm for a door travel of 6"/s (1 and 1-1/2HP).

■ Drive and Trolley Assembly

#41 full roller chain drive. Dual, 12 gauge, pre-drilled galvanized tracks provided for doors up to 12' in height standard. Additional track lengths are available (max. door height acceptable for the operator limit system is 40'). Track spacers 3/4" steel shaft. Trolley made of cast aluminum alloy with chain tension adjustment device.

■ Clutch

In-line friction type, integrated in reducer, easily adjustable from outside.

■ Brake

Electrically activated drum-band type solenoid brake.

■ Manual Operation

Quick release disconnect arm for manual door operation.

■ Electrical Enclosure

All electrical components are in a Nema 1 enclosure. Simple slide-off cover.

■ Limit System

Rotary-type oil-impregnated steel cams, commercial grade switches. Limit shaft is supported by self-lubricating bronze bushings for increased precision. Remains in time when there is a manual operation or after the motor has been removed.

■ Accu-cam® Feature

Precise and quick one-handed adjustment of the limits.

■ Corrosion Protection

Reducer, control enclosure and frames protected by baked on, long lasting enamel finish.

■ Mounting

Ceiling-mounted. For indoor use only.

■ Shipping Weight

Approx. 126 lb - 57 kg + tracks.

■ Warranty

2 years.



Accu-cam® Limit Feature

For precise and quick one-hand limit setting adjustments

Simple Slide-Off Cover

For easy access to components and wiring

Solenoid Brake

Drum-band type solenoid brake

The MGT is a heavy-duty worm gear industrial trolley operator designed for use on industrial standard lift sectional doors.

It features a high starting torque continuous-duty industrial type motor and a drum-band type solenoid brake.

The operator is offered with the Electronic Control Board (BOARD 070) and MONITORED external entrapment protection devices (ANSI/CAN/UL325 compliant).

Control Options

■ ECB Units (BOARD 070)

24Vdc relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: On-board radio receiver, 1.5s delay on reverse, programmable maximum run timer, mid-stop, timer to close (suspension possible from floor level), built-in cycle-counter, independent input loop terminal, advance close system, test buttons, reverse wiring detection and door lock sensor.

Operating mode selectable on site: C2, B2, D1, E2, T or TS.

■ "M" Version



Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photoelectric cells (PHOTO 070 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photoelectric cells, 2-wire non-monitored sensing edges and pneumatic sensing edges.

Certifications: ANSI/CAN/UL 325.

Note: ANSI/CAN/UL 325 apply to units intended to be used in ordinary locations in accordance with the Canadian Electrical Code, Part I and the National Electrical Code, NFPA 70, respectively.

Main Options

■ Control Accessories

Terminal strip allows for the connection of 3-button stations (one supplied with the operator), non-monitored sensing edges/photoelectric cells/light curtains, external radio receiver, ceiling pull switches, key switches, loop detectors, LED strips, external interlocks, universal auxiliary output module. Optional Manaras Internet Control™ (MIC) available. 2A fuse protected 24VAC output is available for accessory power supply. Nema 4/12 or Nema 4X protected monitored photoelectric cells upgrade available.

■ Environmental Modifications

Nema 4/12, Nema 4X and Nema 7/9 enclosures.

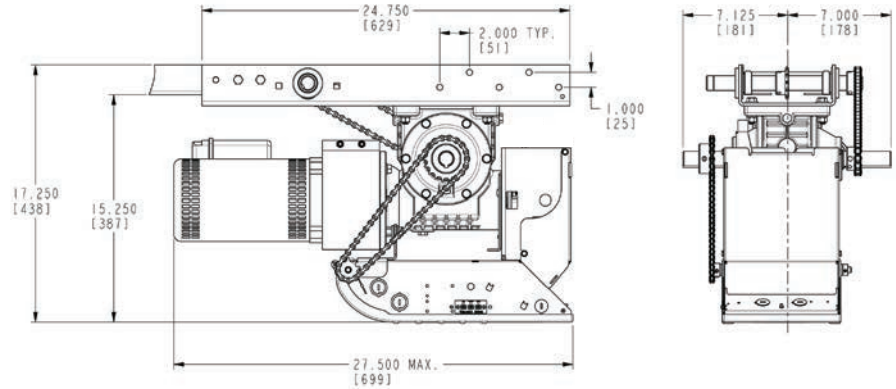
■ Mechanical Modifications

Dual trolley drive, chain hoist, very heavy-duty front idler, etc. Consult inside sales.

Dimensions

Back Room: Door height + 4'6" (1370 mm)

Back Room: 4" (102 mm) above the highest point of door travel



Motor Selection

Maximum Size of Door in Square Feet

Horse Power	Sectional Doors					General Guideline
	Steel 18 ga. ins.	Steel 18 ga. 20 ga. ins.	Wood Steel 20 ga. 22 & 24 ga. ins.	Aluminum Steel 22 & 24 ga.	Fiberglass	
1/2	196	245	314	343	392	
3/4	270	319	441	490	549	
1	294	392	490	564	613	
1-1/2	373	466	549	613	-	

Main Options

Current Consumption (Amp.)

Horse Power	120V 1 Ph	240V 1 Ph	208 / 240V 3 Ph	480V 3 Ph	600V 3 Ph	General Guideline
1/2	9.0	4.5	2.2	1.1	-	
3/4	11.2	5.6	3.2	1.5	1.2	
1	13.6	6.8	3.7	1.7	1.4	
1-1/2	19.6	9.8	5.3	2.5	2.0	

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