

Standard Features

■ Motor

60Hz high starting torque, continuous-duty, 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

First step in reduction 5L/B V-belt drive (4L/A for A.00 apartment model), additional step by #41 chain and sprockets. Input shaft is 5/8", supported by precision ball bearings (flanged cast iron pillow block bearings for A.00 apartment model). Output shaft is 1", supported by ball bearings. Output shaft speed: 120 rpm for a door travel of 12"/s (92 rpm for a door travel of 9"/s for A.00 apartment model).

■ Drive and Trolley Assembly

#48 (#410) full roller chain drive on 1/2 HP and #41 full roller chain drive on 3/4, 1 HP and for all A.00 apartment models. Dual, 12 gauge, pre-drilled galvanized tracks provided for doors up to 12ft. in height standard. Additional track lengths are available (max. door height acceptable for the operator limit system is 30ft.). Track spacers 3/4" steel shaft. Trolley made of cast aluminum alloy with chain tension adjustment device.

■ Clutch

Friction type, positioned on input shaft, easily adjustable from outside.

■ Brake

Electrically activated drum-band type solenoid brake.

■ Manual Operation

Quick release disconnect arm for manual push-up operation.

■ Electrical Enclosure

All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure 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

Frame and control enclosure protected by baked on, long lasting enamel finish. All shafts protected by yellow chromate coating.

■ Mounting (Low Headroom Design)

Ceiling-mounted with only 6.25" headroom clearance required below the tracks.

■ Shipping Weight

Approx. 73 lb - 33 kg + tracks.

■ Warranty

2 Years.

OTBH & OTBH-A.00

Trolley Operator

Heavy-Duty with Solenoid Brake & Heavy-Duty High-Cycling Apartment



Low Headroom Design

Requires only 6.25" of headroom clearance below the tracks

Hinged Cover

For easy access to components and wiring

Accu-cam® Limit Feature

For precise and quick one-hand limit setting adjustments

Solenoid Brake

Drum-band type solenoid brake

The OTBH is a heavy-duty low headroom trolley operator designed for use on industrial standard lift sectional doors. It incorporates a drum-band type solenoid brake.

The OTBH-A.00 is a low headroom apartment type garage door operator designed for use on industrial standard lift sectional doors with high cycling daily frequency requirements.

The operator is offered with the Electronic Control Board (BOARD 070) and MONITORED external entrapment protection devices (ANSI/CAN/UL 325 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

Angled 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 and Nema 4X enclosures.

■ Mechanical Modifications

Dual trolley drive, trolley hoist, double v-belt, cogged v-belt, cast iron flanged pillow block bearings on input/output shafts, very heavy-duty front idler, minimum depth, etc. Consult inside sales.

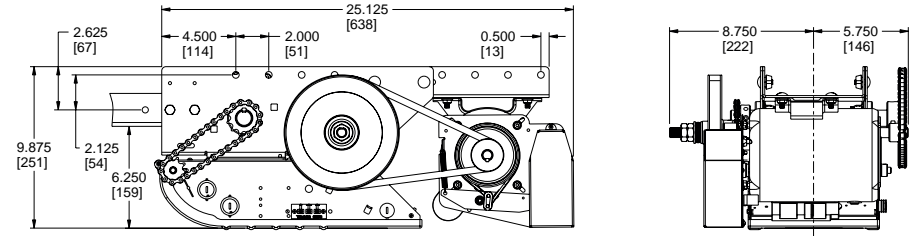
■ Electrical Modifications

Warning light wiring, contactor ECB-driven, etc. Consult inside sales.

Dimensions

Back Room: Door height + 4"5" (1350 mm)

Head Room For Tracks: 5.625" (143 mm) above the highest point of door travel



Motor Selection

Maximum Door Area in Square Feet (WxH)

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

Operator Range

Current Consumption (Amp.)

Horse Power	Nominal Voltage (V) / Phase					General Guideline
	120V/ 1 Ph	240V/ 1 Ph	208V, 240V/ 3 Ph	480V/ 3 Ph	600V/ 3 Ph	
1/2	8.0	4.0	2.1	1.0	0.8	
3/4	11.2	5.6	3.2	1.5	1.2	
1	13.6	6.8	4.4	2.1	1.6	

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136, av. Oneida,
Pointe-Claire (Québec)
Canada H9R 1A8

1-800-361-2260
manaras.com

