

## Standard Features

### ■ Electrical Supply

Single-phase powered operator.

### ■ Motor

60Hz high starting torque, 1 HP continuous-duty switchless motor, open drip proof, protected against overload.

### ■ Speed Managing Features

A variable frequency drive provides enhanced performance and speed, with soft-start and soft-stop capabilities.

### ■ Reduction

First step in reduction Bx section cogged V-belt drive, additional steps by chain and sprockets. Input shaft is 3/4", supported by cast iron flanged pillow block bearings. Intermediary and output shafts are 1" with 1/4" keyway, supported by cast iron flanged pillow block bearings. Output shaft speed: 97 rpm opening / 65 rpm closing.

### ■ Clutch

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

### ■ Drive

#50 roller chain with sprockets selected for an opening door travel between 12"/s to 24"/s.

### ■ Brake

Electrically activated high-cycle drum-band type solenoid brake

### ■ Manual Operation

Manual chain hoist.<sup>(2)</sup> Floor level chain hoist engaging device with electrical cut-out. An electrical interlock automatically disconnects power to the motor operator when chain hoist is engaged. Hoist on right is standard, hoist handing must be specified when ordering.

### ■ Electrical Enclosure

All electrical components are in a Nema 1 enclosure. Hinged electrical enclosure cover with stable opened position.

### ■ 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.

### ■ Non-Resettable Cycle Counter

6-digit electro-mechanical counter, mounted inside the control box, counts each complete door cycle providing valuable data for maintenance scheduling.

### ■ Corrosion Protection

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

### ■ Mounting

Wall, hood, or shelf mounted on the right or on the left of the door. For indoor use only.

### ■ Temperature Range

Working temperature between 0°C to 40°C (32°F to 104°F).

### ■ Shipping Weight

Approx. 107 lb - 49 kg.

### ■ Warranty

2 Years.

<sup>(1)</sup> For doors weighing above 750 lb, the system requires a brake resistor (\$).

<sup>(2)</sup> Offering door speeds 2X as fast as a conventional door.

<sup>(3)</sup> The hoist is designed for light and limited use. Use when manual operation is required.

# Rapido® RMSJ

Jackshaft Operator

High-Speed Ultra Heavy-Duty Industrial Hoist

## Manages Soft-Starts and Soft-Stops

Improves the longevity of the complete door system

## On-Board Control

Control board and variable frequency drive

## Single Phase Input Power / Switchless Motor

## Cast Iron Pillow Block Bearings

Flanged pillow block bearings on the input, intermediary and output shafts

## Accu-cam® Limit Feature

For precise and quick one-hand limit setting adjustments



The Rapido® RMSJ is a high-speed ultra heavy-duty V-belt drive industrial operator designed for use on large properly counterbalanced sectional doors.<sup>(1)</sup>

The Rapido® line of jackshaft operators is designed to offer up to 2X<sup>(2)</sup> the speed compared to standard jackshaft operators. It enhances the door system's performance by managing soft-starts and soft-stops, which helps minimize wear and tear, prolonging the overall lifespan of the door system. This feature ensures smoother operation and reduces mechanical stress on components.

The Manaras-Opera control is based on its legendary Electronic Control Board which delivers high performance and reliability while providing on-board control plus speed managing features.

## 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 Nema 4X photoelectric cells (PHOTO 061 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. 2A fuse protected 24VAc output is available for accessory power supply.

### ■ Mechanical Accessories

Wall or hood mounting bracket, chain spreader, etc.  
Consult inside sales.

### ■ Control Modifications

Alternate control available with separate control panel. Optional separate brake resistor, separate 480V/240V or 600V/240V transformer panel, etc. Consult inside sales.

### ■ Mechanical Modifications

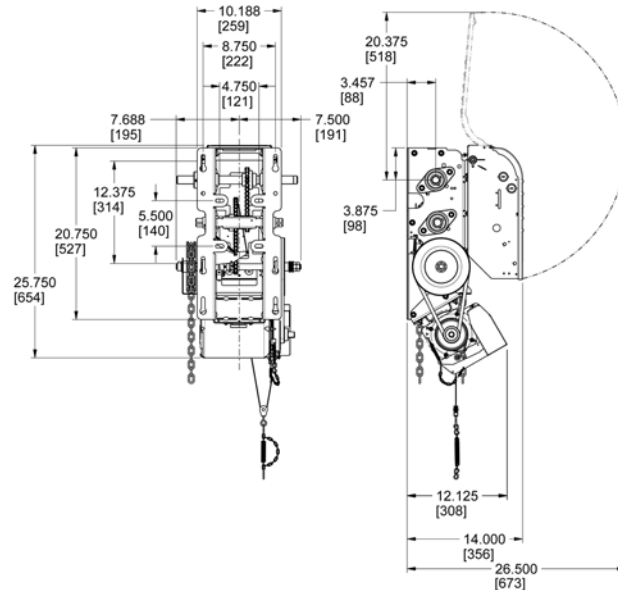
Left hand chain hoist, etc. Consult inside sales.

### ■ Environmental Modifications

Available for Nema 4/12 and Nema 4X type applications, etc.  
Consult inside sales.

## Dimensions

Clearance: Side room required 16" (460mm)



## Operator Range

### Current Consumption (Amp.)

| Horse Power | Nominal Voltage (V) / Phase |             |             | General Guideline |
|-------------|-----------------------------|-------------|-------------|-------------------|
|             | 120V / 1 Ph                 | 208V / 1 Ph | 240V / 1 Ph |                   |
| 1           | 16.7                        | 8.3         | 8.0         |                   |

## Suggested Applications

- First Responders / Emergency Vehicle Facilities
- Automotive Dealerships / Transport Facilities
- Airports / Military Facilities
- Energy Management / LEED Buildings
- Loading Docks / Warehouses / Distribution Centers

**Note:** For additional specifications and in order to optimize the operator's performance, please contact our inside sales department for assistance in selecting the appropriate hardware kit for your application.

Manaras-Opera reserves the right to make specifications or design changes without prior notice.  
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