### **Product Specification Sheet**



### OPERA-MJ JACKSHAFT OPERATOR

### STANDARD FEATURES

### • Motor:

1/2 HP, 115V single phase intermittent-duty motor with instant reverse and internal automatic reset thermal overload protection. Removable without affecting limit switch settings. Also available with 50Hz motor, consult inside sales.

### • Reduction:

First step in reduction 5L/B V-belt drive, additional steps by chain and sprockets. Input shaft is 5/8", supported by precision ball bearings. Output shaft is 1" with 1/4" keyway, supported by ball bearings. Output shaft speed: 36 rpm.

### • Clutch:

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

### • Drive:

#41 roller chain with a 41B12 sprocket for the operator drive shaft. Door sprocket selected for a door travel of 6"/s to 12"/s.

### • Brake:

Mechanical brake.

### • Manual Operation:

A floor level disconnect mechanism which must be engaged 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. 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.

### • Shipping Weight:

Approx. 60 Lbs - 27 Kg.

### • Warranty:

2 Years.



Disconnect mechanism for manual operation

### **Accu-cam**<sup>®</sup> Limit Feature

For precise and quick one-hand limit setting adjustments

### Hinged Cover With Stable Opened Position

For easy access to components and wiring



The Opera-MJ is a medium-duty operator designed for use on standard, high and vertical lift sectional doors or small rolling doors<sup>10</sup> and grilles.

The operator can be wall, hood, or shelf mounted on either side of the door. It incorporates a floor level disconnect mechanism for manual operation.

The operator is available with the new Electronic Control Board (BOARD 070) with or without the option of electrical control for MONITORED external entrapment protection devices (UL325-2010 compliant).

<sup>(1)</sup> For properly balanced rolling steel doors with less than 80 lbs of imbalance, rolling sheet doors, vinyi doors or equivalents. For larger rolling doors, we recommend using an electrically activated drum-band type solenoid brake, see Mechanical Modifications.



When you think Commercial Door OPERAtors, just think OPERA.

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## **Product Specification Sheet**

# OPERA-MJ 14 CYCLES/HOUR 50 CYCLES/DAY

### **CONTROL OPTIONS**

### • ECB Units (BOARD 070):

24Vbc 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), 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.

#### շ(Ա)ստ • "M" Version:

Provides the monitoring of Primary External Entrapment Protection Devices. Includes monitored photo cells (PHOTO 062 standard). In this mode, Ancillary Entrapment Protection Devices (optional) may be used to supplement primary entrapment protection, such as non-monitored photo cells, 2-wire non-monitored sensing edges and pneumatic sensing edges.

Certifications: CSA C22.2-247.92 and UL325. œ

### • "E" Version:

No monitoring function.

Certifications: CSA C22.2-247.92 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

### • Electromechanical Units:

24VAc control circuit, 40VA class II transformer, fuse protected on output.

#### (H), **(H)** • B2/C2 Units:

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...

Certifications: CSA C22.2-247.92 and compliant to UL325 5th Ed. PRIOR to August 2010 revision.

Note: CSA C22.2-247.92 and UL325 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, non-monitored photo cells, one push-button radio control (external strip), ceiling pull switches, key switches, loop detectors, external interlocks, universal auxiliary output module. 2A fuse protected 24VAc output is available for accessory power supply. NEMA 4/12 or NEMA 4X protected monitored photo cells upgrade available.

### • Mechanical Accessories:

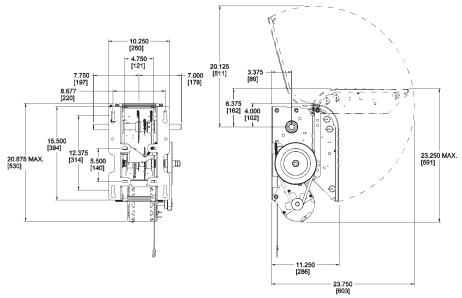
Wall or hood mounting bracket, chain spreader, etc...consult inside sales.

### • Mechanical Modifications:

#50 roller chain, sprocket on final drive and limit shaft speed-up, etc...consult inside sales.

### DIMENSIONS

Clearance: Side room required 15" (380 mm) Maximum Door Height: 14' (4260 mm)



### **MOTOR SELECTION**

_	<u>r</u>	laxim	um S	ize of	D00	r in S	quare	e 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
1/2	-	160	200	275	320	120	160	250	275	290

### **OPERATOR RANGE**

Current Consumption (Amp.)							
	Horse Power	120 V 1 Ph	Guideline				
	1/2	5.0	Seneral				

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