

MANARAS-OPERA: OSH

Heavy-Duty Industrial Jackshaft Operator With Solenoid Brake

25 CYCLES/HOUR >100 CYCLES/DAY

Model Opera-SH is an ultra high-end heavy-duty V-belt drive industrial operator designed for use on standard, high and vertical lift sectional doors or rolling doors and grilles. It incorporates a chain hoist for manual operation with a floor level engaging device.

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, additional steps by chain and sprockets. Input shaft is 3/4", supported by cast iron flanged pillow block bearings. Output shaft is 1" with 1/4" keyway, supported by cast iron flanged pillow block bearings. Output shaft speed: 41 rpm.

- **Clutch:**

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

- **Drive:**

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

- **Brake:**

Electrically activated drum-band type solenoid brake.

- **Manual Operation:**

Emergency manual chain hoist. Floor level chain hoist engaging device with electrical cut-out. An electrical interlock automatically disconnects power to the motor operator when the the chain hoist is engaged. Hoist on right is standard.

- **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.

- **Dimensions:**

Clearance: side room required 16" (460 mm)

For more details, please consult our [Dimensions Drawing](#).

- **Shipping Weight:**

Approx. 96 Lbs - 44 Kg.

- **Warranty:**

2 Years, per section 6 of our [Terms and Conditions of Sale](#).

CONTROL OPTIONS

- **ECB Units (BOARD 070):**

24VDC relaying circuit with a 40VA class II transformer, non-volatile memory. Features available: 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.

- **Electronic Monitored (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.



- **Electronic (E) Version:**

No monitoring function.

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



- **Contactor Units:**

24VAC control circuit, 40VA class II transformer, fuse protected on output, heavy-duty across-the-line linear reversing contactor with mechanical interlock.

- **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 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, plug-in radio card and 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.

• **Environmental Modifications:**

NEMA 4/12 and NEMA 4X enclosures. For NEMA 7/9, consult inside sales.

• **Mechanical Accessories:**

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

• **Mechanical Modifications:**

Left hand chain hoist, limit shaft speed-up, etc...consult inside sales.

• **Options:**

[OSH & Drive \(Separate Control Panel for Semi-Fast Doors\).](#)