

MOTOR OPERATOR - MODEL FSM-50

08330/ATL
Bayline 0371

SPECIFICATIONS

PART 1 GENERAL

1.01 Section includes

- A. Type:** The motor operator will be Atlas Door™ Model FSM-50 as manufactured by Clopay Building Products Company, Inc.
- B. Mounting:** To be vertical front of hood or wall mount.

1.02 Related Work

- A.** Electrical wires, wiring, disconnect switches, and conduit are in the scope of work of other sections or trades.
- B.** Submit manufacturer's product data and installation instructions for each type of coiling door. Include both published data and any specific data prepared for this project.

1.03 Single-Source Responsibility

- A.** Provide doors, guides, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

PART 2 PRODUCT

2.01 Operator

- A. Motor:** Provide high torque, intermittent duty, squirrel cage induction electric motor, TENV motor; Capacitor start motor for single phase applications. Operator is limited to 30 cycles per hour. (Specify voltage and phase available.)
- NOTE:** 480 VAC motors will require a separate single phase voltage source for brake power.
- B. Reduction:** To be parallel shaft gearbox with aluminum die cast housing. Precision machined gearing, harden for maximum load capability. All gearing designed and rated to AGMA class 9 standards. Gears and bearings are splash lubricated with permanent, heavy-duty gear oil.
- C. Drive:** Product shaft to be driven by 50 series roller chain to provide travel of 6" (152.4 mm) to 12" (304.8 mm) per second.

- D. Brake:** To be electrically activated magnetic disc type brake.
- E. Electrical Enclosure:** All electrical components shall be in a NEMA 1 enclosure and pre-wired to terminal block.
- F. Reversing Contractor:** Heavy-duty across the line reversing type with mechanical interlock, size "00."
- G. Limit Switches:** To be positive chain drive screw type limit switch, enclosed in electrical control box, easily accessible for precision setting. Limit switches will remain in time when the emergency chain hoist is used and during mechanical governed closure.
- H. Listing:** UL 325.

2.02 Operation

- A. Automatic Powered Closing with Fire Power™ Operation:** If the door is in the open position and an alarm condition occurs, the door will automatically close under motor operation. In the event the door should hit an obstruction while closing, it will reverse and return to the full open position, and then begin closing again. If the obstruction is not removed, the door will cycle approximately three (3) times, finally closing and stopping at the lowest possible position. If after the door has finished the cycling mode and the obstruction is removed the door will proceed to the floor. If the door is reopened and the alarm condition is still present, then the door will immediately close to the lowest possible position.

NOTE: Electronic Sensor Edge option is required with Fire Power™.

- B. Automatic Closing:** If the door is in the open position and a loss of power occurs, the door will automatically close by mechanical governed closure. No manual reset is required. Once power is stored, resetting the door is performed by pressing the open button. Closure will be governed between 6 to 24 inches per second.
- C. Fuse Link Release:** If the door is in the open position and the fuse link melts, the door will automatically close by mechanical governed closure. Once the fuse link is replaced, resetting the door is performed by pressing the open

button. (The door cannot be electrically operated until the fuse link is replaced.) Closure will be governed between 6 to 24 inches per second.

D. Alarm Voltage: Type and voltage must be specified. Available in 12 VDC, 24 VDC, 24 VAC, 115 VAC and dry contact. Alarm can be maintained or applied voltage. To maintain the maximum fail-safe capability, maintained voltages are recommended.

E. Control Circuit: Shall be reduced to 24 VAC. Pre-wired for safety edge to reverse fuse link release, test key switch and three-button station.

F. Control Stations: To be one NEMA 1 surface mount three-button station with open, close and stop functions. Momentary contact to open, close and stop.

G. FIRESET™ Unique Controls: Includes NEMA 1 surface mount test key switch and fuse link release assembly.

H. Overload Protection: Three phase units have auto-resetting overload protection. Single phase units have manual overload protection, with external reset.

I. Emergency Operation: To be by floor operated chain hoist which must be engaged for manual mechanical operation. Supplied with a fuse link on the disconnect sash chain and electrically interlocked. The hand chain should not be used to keep the door open and is intended for emergency use only.

J. Listing: Approved for use on UL and FM listed fire doors.

PART 3 EXECUTION

3.01 Installation

- A. Installation:** To be by an Atlas Door authorized representative and in accordance with Atlas Door standards and instructions.
- B.** Submit manufacturer's product data and installation instructions for each type of coiling door. Include both published data and any specific data prepared for this project.
- Note To Specifiers...**Please see end of this section for frequently specified Optional Features.

AMPERAGE & HORSEPOWER DATA

Max. Square Area Motor Model	Fire Door	HP	Voltage	Phase	Amp
FSM-50	275 sq.ft.	1/2	115	1	8
			208	1	5
	25.55 m ²	1/2	230	1	4
			208	3	2
			230	3	1.8
			480**	3	1

*The actual maximum square footage will depend on the type of endlocks, bottom bar, gauge and the height to width selected.

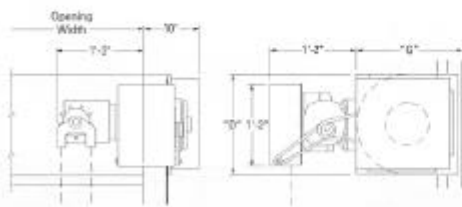
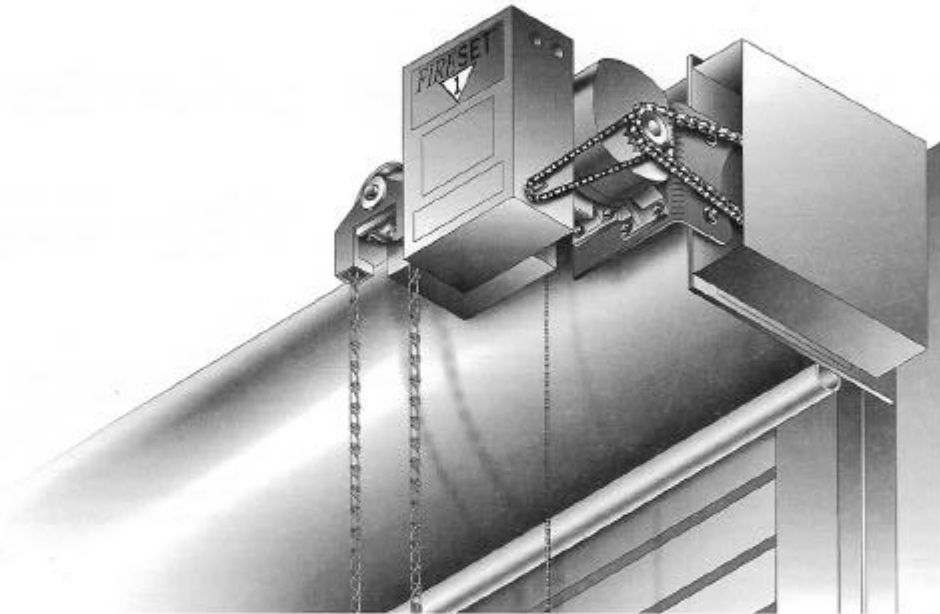
**480 VAC motors require a 115 or 230 VAC single phase source for brake power.

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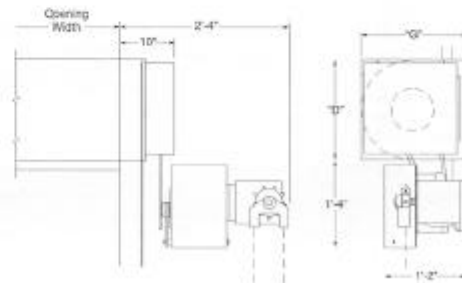
08330/ATL
Buyline 0371

- 1/2 H.P.
- Emergency Hand Chain

Used on:
Fire Doors - "F" Series



VERTICAL FRONT OF HOOD



WALL MOUNTED

atlas door