## **LiftMaster**

# Commercial Door Operator Rolling Steel Fire Door



### **STANDARD FEATURES**

- Time delayed automatic closing
- Auto-reset Overload protection
- Monitored battery back-up
- Low battery warning
- Programmable closing function selections
- Keyed test station
- Electronic thermal sensors (field installed)
- Continuous duty motor
- Detector/alarm input
- Adjustable linear driven limit switches
- 24-volt control Circuit
- 3-button open/close/stop control station
- NEMA 1 enclosures
- UL Listed

### Model FDC - In-line Gear Drive Fire Door Motor Operator

For fire doors up to 350 sq. ft. in standard cycle applications

NOTE: CONSULT FACTORY for availability on doors less than 10' wide or less than 100 sq. ft.

- High efficiency spur-gear reducer
- · Horizontal front of coil or wall mount
- Provides automatic closing without a loss of spring tension eliminates the need for traditional mechanical reset
- Electronic thermal sensor, detector or alarm activation of motor controlled closing or internal release and brake controlled closing
- Provision for optional remote fusible link release connection
- 72 hour battery back-up with automatic closing prior to complete discharge of batteries
- Close on alarm feature to close door through motor operator upon activation by thermal sensor, detector
  or alarm will activate warning device (if provided), and close door after selectable time delay. If
  obstruction is encountered, it will cycle upon contact and/or stop on the obstruction, internally release and
  continue to close when the obstruction is removed with the closing speed controlled through the brake
  (requires door be provided with a sensing edge)
- Automatic closing upon power loss prior to battery discharge will activate devices (if provided), internally
  release and close door after selectable time delay with closing speed controlled by the brake. If an
  obstruction is encountered, the door will stop on the obstruction and continue to close after it is removed
  (requires door be provided with a sensing edge)
- Failsafe closing in the event of system failure will internally release and close the door with controlled descent
- Auto-reset to restore normal operation of the door by activating open control after alarm is cleared/power
  is restored
- Motor ½ and 1 HP Continuous-duty high-starting torque motor with instant reverse and overload protection
- Voltage 115V, 230V-1PH/208-230V, 460V-3 PH

NOTE: FDC fire door motor operators do not have an auxiliary chain hoist or auxiliary release

Per the requirements of UL Standard 325-2010, the door operator must be provided with an actuating device requiring constant pressure to close the door. As an alternative, the door may be provided with a device that will reverse the door upon contact with an obstruction during closing (Photo eyes OR sensing edge)

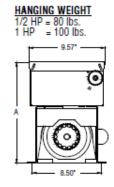
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### **SPECIFICATIONS**

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| DRIVE SYSTEM                              |  |  |  |  |
|---|--|--|--|--|
| GEAR REDUCERS:                            | Helical inline, oil bath<br>permanently lubricated, non-vented |  |  |  |
| CONTINUOUS POWER RATING:                  |  |  |  |  |
| 1/2 HP:                                   |  |  |  |  |
| RATIO:                                    | 40.04  |  |  |  |
|   |  |  |  |  |
| OUTPUT SPEED:                             | 00.004   |  |  |  |
|   | 36 RPM   |  |  |  |
| OUTPUT TORQUE:                            | 500 in the   |  |  |  |
|   |  |  |  |  |
| OUTPUT SHAFT DIAMETER:                    | 4.   |  |  |  |
| 1/2 HP:                                   |  |  |  |  |
| OUTPUT SPROCKET:                          | #50-14T  |  |  |  |
|   | #60-14T  |  |  |  |
| MAX. OVERHUNG LOAD: (1" from              |  |  |  |  |
|   |  |  |  |  |
| MAX. BACK DRIVING FORCE: (torque) 1/2 HP: |  |  |  |  |
| 1 HP:                                     |  |  |  |  |
|   |  |  |  |  |

| ITEM -  | DIMENSIONS |        |  |
|---------|------------|--------|--|
| III EMI | 1/2HP      | 1HP    |  |
| Α       | 13.00"     | 14.38" |  |
| В       | 21.00"     | 25.73" |  |
| C       | 16.93"     | 16.31" |  |
| D       | 2.44"      | 2.93"  |  |
| E       | 3.35"      | 3.94"  |  |
| F       | 4.53"      | 5.61"  |  |
| G       | 2.26*      | 2.80"  |  |
| Н       | 6.67"      | 7.22"  |  |
| J       | 8.25*      | 7.50"  |  |
| K       | 2.12"      | 2.51"  |  |



#### MOTOR

| TYPE:             |  |
|-------------------|--|
|                   | 1/2 HP and 1 HP                              |
|                   | 1725 RPM                                     |
|                   |  |
|                   | 230/460 3 Phase                              |
| ENCLOSURE:        | ODP NEMA 56c face mount                      |
| ELECTRICAL        |  |
|                   | 1PH: 120/240 Vac 24 Vac                      |
| THANGI OHINEH     | 3PH: 240/480 Vac 24 Vac                      |
| BATTERY BACKUP:   | (2) 12Vdc 7AH sealed lead acid batteries     |
|                   | NEMA1 3-Button Station                       |
| CONTINUE CIATION  | OPEN/CLOSE/STOP                              |
| WIRING TYPE:      |  |
|                   | B2 (Optional with LMEP installed)            |
| LIMIT ADJUST:     | Linear driven, fully adjustable              |
|                   | screw type cams. (70 rev. max @ limit shaft) |
| DUTY CYCLE:       | 25 Reversing cycles per hour                 |
| BRAKE:            | 24 Vdc electromagnetic disc                  |
| THERMAL SENSORS:. | (Open on rise manual reset, see page 18)     |
|                   | (Open on rise manual reset, see page 18)     |
| FIISE:            | 250V 3AG 2 AMP Slow-Blow                     |

### CURRENT (Amperage):

| Model    | Voltage-Phase | 1/2 HP |
|----------|---------------|--------|
| FDC5011U | 115-1Ø, 60Hz  | 11.2   |
| FDC5021U | 230-1Ø, 60Hz  | 5.6    |
| FDC5023U | 230-3Ø, 60Hz  | 3.1    |
| FDC5043U | 460-3Ø, 60Hz  | 1.75   |
| Model    | Voltage-Phase | 1 HP   |
| FDC1011U | 115-1Ø, 60Hz  | 16     |
| FDC1021U | 230-1Ø, 60Hz  | 8      |
| FDC1023U | 230-3Ø, 60Hz  | 6      |
| FDC1043U | 460-3Ø, 60Hz  | 3      |
|          |               |        |

