The MA-LM24 motor actuators are easy to install, easy to wire up, and come with a 5 year warranty. The superior design insures long life and no maintenance. **Airflow can be from either direction and the Motor can be oriented in any position in a conditioned area.** The UL Listed Motor Actuator is a 24vac 3 wire power open / power close type rated at 45 in.-lbs. of torque and 95 second rotation time. It includes an integrated terminal block, and NEMA1 rated housing. End-Stop adjustment allows for a percentage of Relief Air (Leakage) to be set when the damper is powered to close. A positional arrow is also included that provides visual indication of blade travel. Optional Model S1A, Auxiliary end-switch can be added if required.

### Technical Data

- **Power Supply**: 24 VAC ± 20% 50/60Hz  
  24 VDC ± 10%
- **Power Consumption**: 1.5 W
- **Transformer Sizing**: 2.0 VA (Class 2 power source)
- **Electrical Connection**: Screw Terminal  
  (26 to 14 GA Wire)
- **Torque**: 45 in-lb [2 Nm]
- **Direction of Rotation**: Reversible with switch
- **Manual Override**: External Push Button
- **Running Time**: 95 seconds, constant  
  independent of load
- **Humidity**: 5 to 95% RH Non-Condensing
- **Ambient Temperature**: -22°F to +122°F  
  [-30°C to +50°C]
- **Storage Temperature**: -40°F to +176°F  
  [-40°C to +80°C]
- **Housing**: NEMA 1 / IP20
- **Housing Material**: UL94-5VA
- **Agency Listings**: cULus
- **Noise Level**: < 35dB(A)

### END STOP ADJUSTMENT

- **END STOP ADJUSTMENT**
  - LOOSE PHILIPS HEAD SCREW
  - MOVE END-STOP TO DESIRED POSITION
  - TIGHTEN PHILIPS HEAD SCREW

---

END STOP ADJUSTMENT

---

**EXCELLENCE WITHOUT COMPROMISE**

---

**385 Hwy. 33**  
**Ennishtown, NJ 07726**  
**Ph: 800-446-3110**  
**Fx: 732-446-5362**

---

Copyright © 2006 EWC Controls Inc., All Rights Reserved.
**WIRING SOLUTIONS**

**Motor Actuator Terminals**

<table>
<thead>
<tr>
<th>TERMINAL</th>
<th>Direction Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24v Com.</td>
</tr>
<tr>
<td>2</td>
<td>Counter Clockwise</td>
</tr>
<tr>
<td>3</td>
<td>Clockwise</td>
</tr>
</tbody>
</table>

**Wiring to a Zone Control Panel**

**Model MA-LM24**

**LMB24-3-T**

- Terminal 3
- Terminal 2
- Terminal 1

**ZONE CONTROL DAMPER OUTPUT**

- Terminal M6
- Terminal M4
- Terminal M2
- Terminal M1

**Wiring in Parallel**

**Model MA-LM24**

**LMB24-3-T**

- Terminal 3
- Terminal 2
- Terminal 1

**Zone Control Damper Output**

- Terminal M6
- Terminal M4
- Terminal M2
- Terminal M1

**Direction of Rotation**

Clockwise = Close
Counter-Clockwise = Open

*For reverse operation Change switch position*