

ULTRA-ZONE®

Forced Air Zone Controls

SUBMITTAL SHEET

Model MA-LM24 Actuator

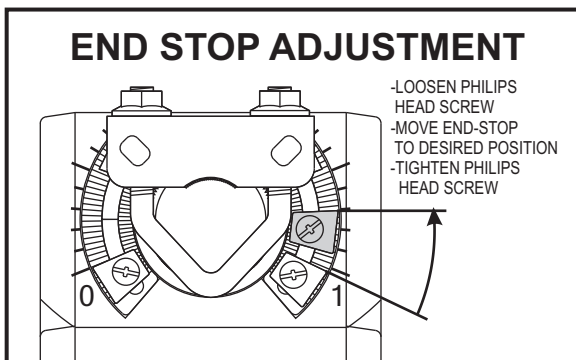
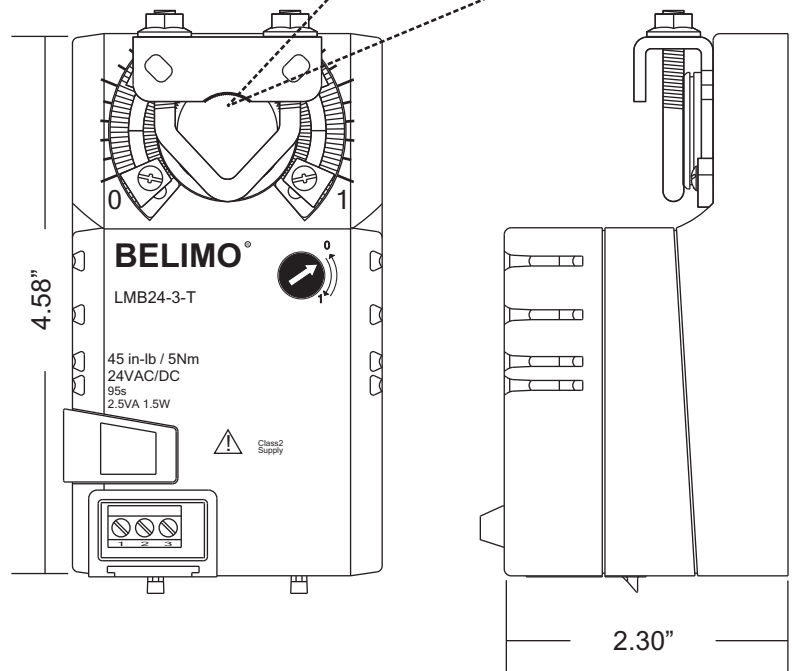
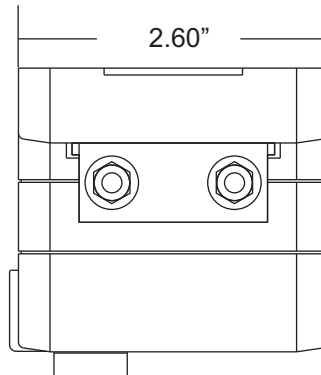
The MA-LM24 motor actuators are easy to install, easy to wire up, and come with a 5 year warranty. The superior design insures long life and no maintenance. The UL Listed Motor Actuator is a 24vac 3 wire power open / power close type rated at 45 in.-lbs. of torque and 95 second rotation time. It includes 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.



Positional Indicator
not attached for clarity

Technical Data

| | |
|-----------------------|---|
| Power Supply | 24 VAC ± 20% 50/60Hz 24 VDC ± 10% |
| Power Consumption | 1.5 W |
| Transformer Sizing | 2.5 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) |



SUBMITTAL FORM

SUBMITTED BY: _____

JOB: _____

ARCHITECT: _____

ENGINEER: _____

CONTRACTOR: _____

LOCATION: _____



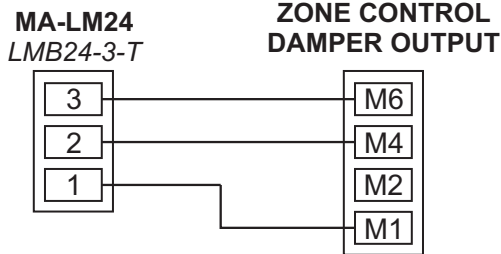
385 Hwy. 33
Englishtown, NJ 07726
Ph: 800-446-3110
Fx: 732-446-5362

WIRING SOLUTIONS

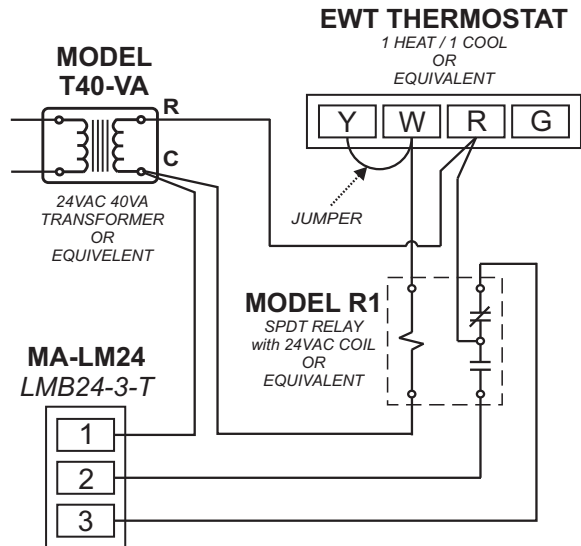
Motor Actuator Terminals

| TERMINAL | Direction Switch | |
|----------|-------------------|-------------------|
| | 0 ↶ | ↷ 1 |
| 1 | 24v Com. | 24v Com. |
| 2 | Counter Clockwise | Clockwise |
| 3 | Clockwise | Counter Clockwise |

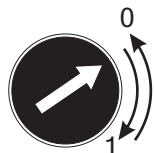
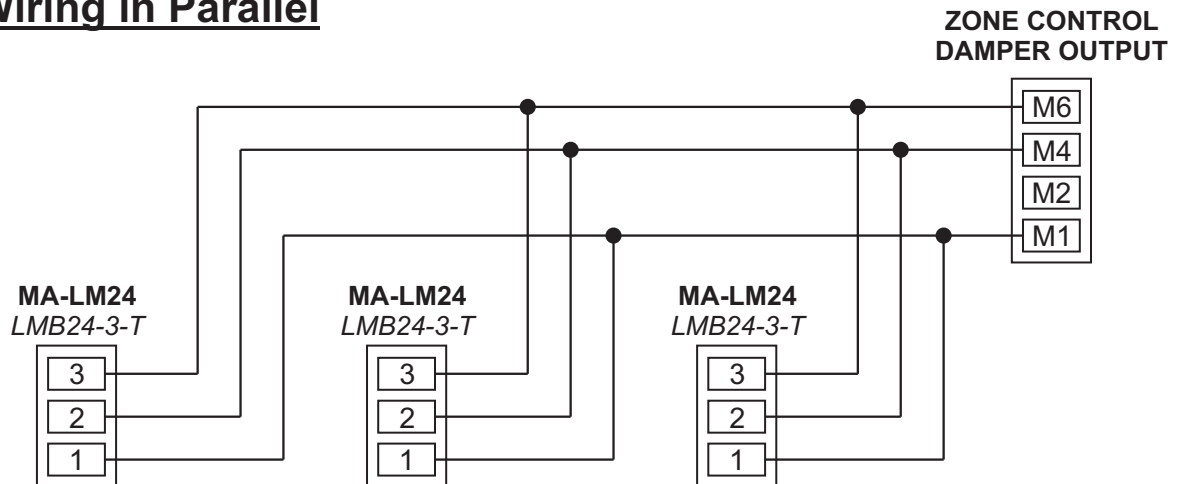
Wiring to a Zone Control Panel



Wiring a Thermostat to Control a Single Damper



Wiring in Parallel



DIRECTION OF ROTATION

Clockwise = Close
Counter-Clockwise = Open

*For reverse operation Change switch position