

# ULTRA-ZONE<sup>®</sup>





Forced Air Zone Controls

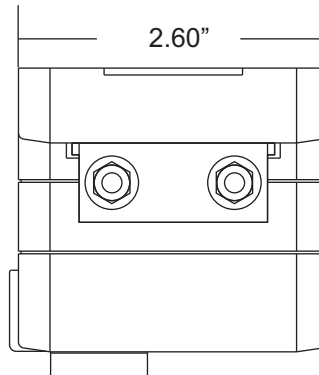
## SUBMITTAL SHEET

### Model MA-LM24SR-T Actuator

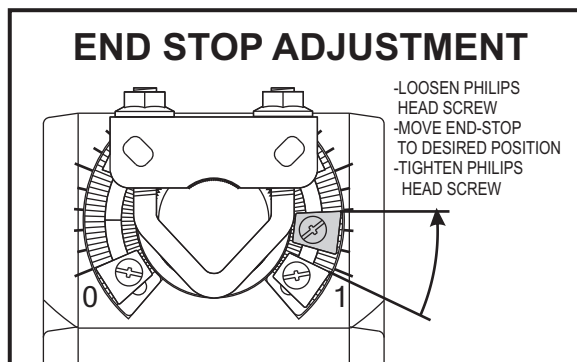
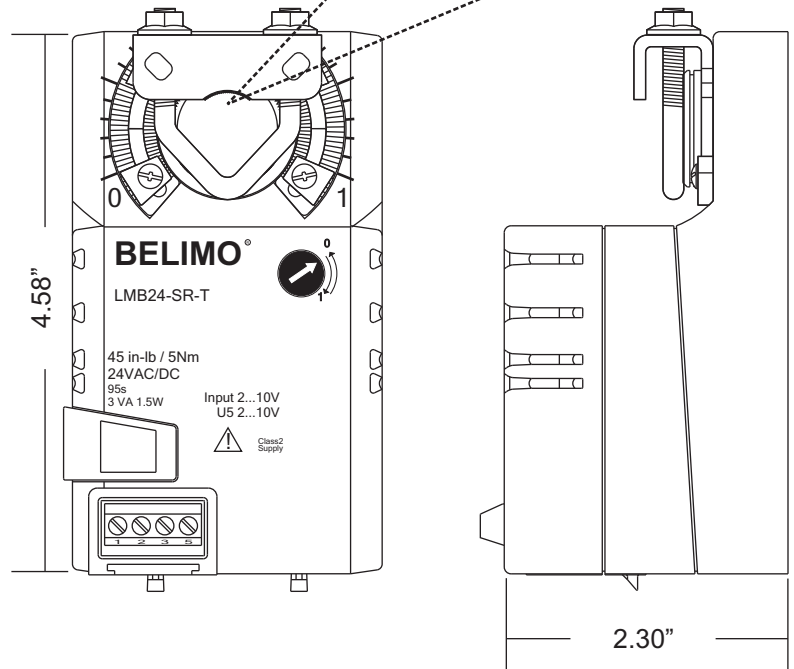
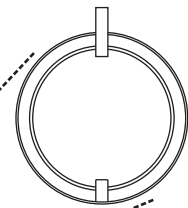
The MA-LM24SR-T motor actuators are easy to install, easy to wire up, and come with a 5 year warranty. The superior design insures long life and no maintenance. The UL Listed Motor Actuator is a 2-10vdc Proportional controlled actuator rated at 45 in.-lbs. of torque and 95 second rotation time. It includes 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. Optional Model S1A, Auxiliary end-switch can be added for control of auxiliary devices. The MA-LM24SR-T can be controlled from any 2-10vdc or 4-20mA control. The actuator can also be controlled with the optional Manual Positioner (Model MP) or Proportional Thermostat (Model EWT-P).

#### Technical Data

|                       |   |
|-----------------------|---|
| Power Supply          | 24 VAC ± 20% 50/60Hz<br>24 VDC ± 10%  |
| Power Consumption     | 1.5 W   |
| Transformer Sizing    | 3 VA (Class 2 power source)   |
| Electrical Connection | Screw Terminal<br>(26 to 14 GA Wire)  |
| Torque                | 45 in-lb [2 Nm]   |
| Direction of Rotation | Reversible with  /  switch<br> =CCW with decreasing control signal<br> =CW with decreasing control signal<br>(10 to 2 volt) |
| 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<br>[-30°C to +50°C]   |
| Storage Temperature   | -40°F to +176°F<br>[-40°C to +80°C]   |
| Housing               | NEMA 1 / IP20   |
| Housing Material      | UL94-5VA  |
| Agency Listings       | cULus   |
| Noise Level           | < 35dB(A)   |



Positional Indicator not attached for clarity



#### SUBMITTAL FORM

SUBMITTED BY: \_\_\_\_\_

JOB: \_\_\_\_\_

ARCHITECT: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

LOCATION: \_\_\_\_\_



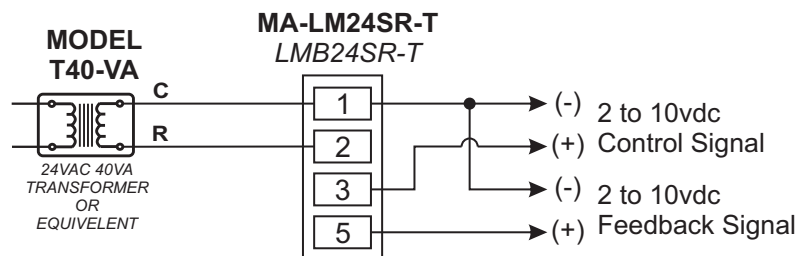
385 Hwy. 33  
Englishtown, NJ 07726  
Ph: 800-446-3110  
Fx: 732-446-5362

### WIRING SOLUTIONS

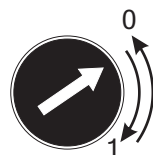
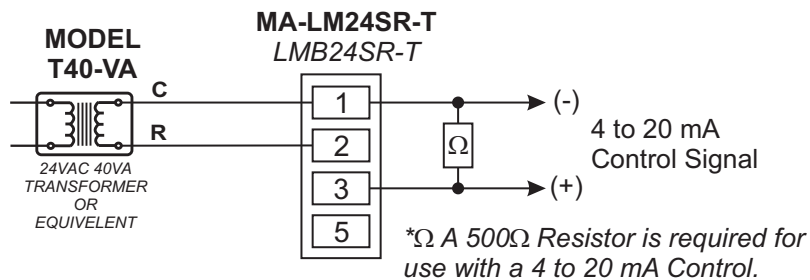
#### Motor Actuator Terminals

| TERMINAL | DESCRIPTION                     |
|----------|---------------------------------|
| 1        | 24v Common                      |
| 2        | 24v Hot                         |
| 3        | 2-10vdc / 4-20mA Control Signal |
| 5        | 2-10vdc Feedback Signal         |

#### Wiring with 2 to 10 vdc Control Signal



#### Wiring with 4 to 20 mA Control Signal



#### DIRECTION OF ROTATION

Clockwise = Close  
Counter-Clockwise = Open

\*For reverse operation Change switch position

Excellence Without Compromise

**EWC<sup>®</sup>**  
CONTROLS INC.

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