

ULTRA-ZONE®

Forced Air Zone Controls

SUBMITTAL SHEET

Model MA-TF24 Actuator
Model MA-TF120 Actuator

The MA-TF24 and MA-TF120 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 MA-TF series is for On/Off, fail-safe control of dampers with a ½ inch shaft. It also provides true spring return operation for reliable fail-safe operation. The spring return system provides consistent torque to the damper with and without power applied to the actuator. The TF Series provides 95° of rotation and can be stalled anywhere in its normal rotation without the need of mechanical end switches. Power consumption is reduced in holding mode. The actuator is double insulated so an electrical ground connection is not necessary.

Technical Data

Power Supply

TF24	24VAC ± 20%, 50/60 Hz 24VDC ±10%
TF120	100 to 240 VAC, 50/60 Hz

Power Consumption

TF24	running 2 W / holding 1.3 W
TF120	running 2.5 W / holding 1.3 W

Transformer Sizing 5 VA (Class 2 power source)

Electrical Connection 3 ft, 18 GA appliance cable

½" Conduit connector

Torque 18 in-lb [2 Nm]

Shaft / Axle Size ½ Inch

Direction of Rotation CW / CCW reversible

Running Time

Motor	<75 sec.
Spring	Average 30 sec.

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]

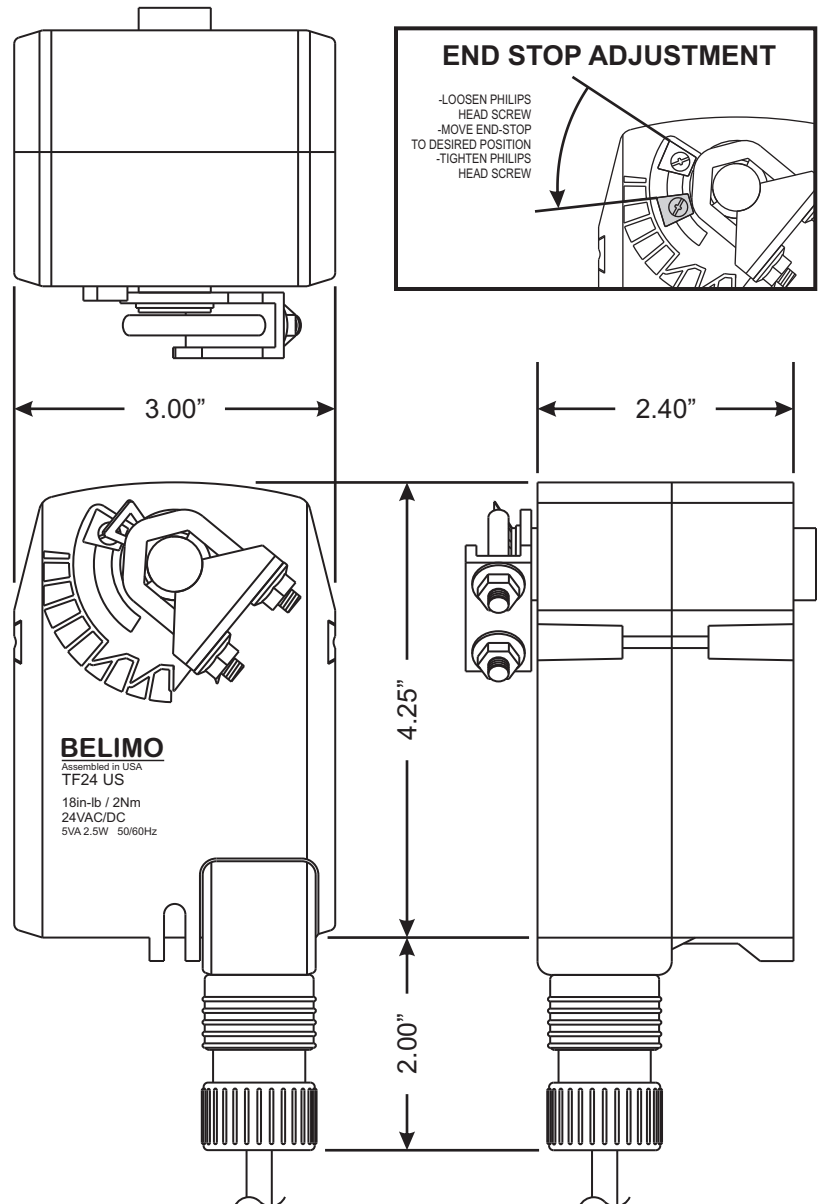
Housing NEMA 2 / IP42

Housing Material UL94-5VA

Agency Listings cULus

Noise Level

Motor	<50 db
Spring	62 db



SUBMITTAL FORM

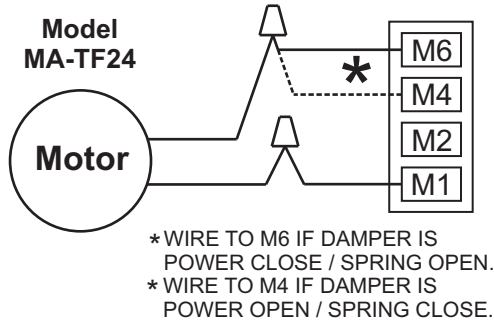
SUBMITTED BY: _____
 JOB: _____
 ARCHITECT: _____
 ENGINEER: _____
 CONTRACTOR: _____
 LOCATION: _____



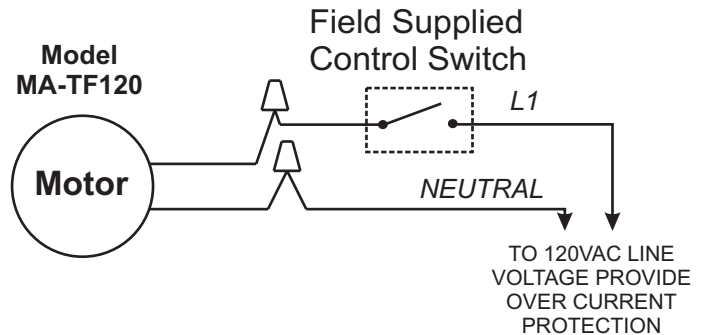
385 Hwy. 33
Englishtown, NJ 07726
Ph: 800-446-3110
Fx: 732-446-5362

WIRING SOLUTIONS

Wiring to Zone Control Panel



Wiring with Field Supplied Control



FIELD REPLACEMENT OF EXISTING SPRING RETURN MOTOR

1. Remove existing Motor Actuator from Damper.
2. Insert Shaft Adaptor in Damper Shaft and secure with supplied Machine screw. (Figure 1).
3. Slide MA-TF24/120 over Shaft Adaptor and tighten U-Bolt with the damper blade in the proper relaxed (Un-powered) position for your application. (Figure 2).
4. Slide Mounting bracket into the slot on the bottom of the MA-TF24/120. (Figure 3).
5. Secure Mounting Bracket with supplied self-tapping screws. (Figure 4).

