

# ULTRA-ZONE®

Forced Air Zone Controls

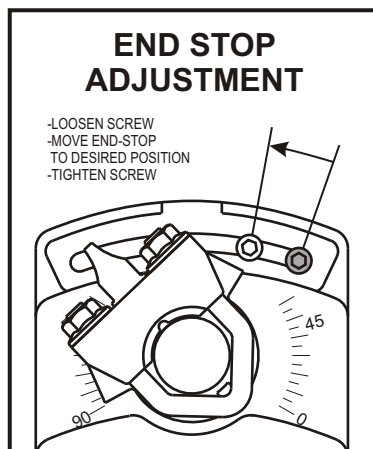
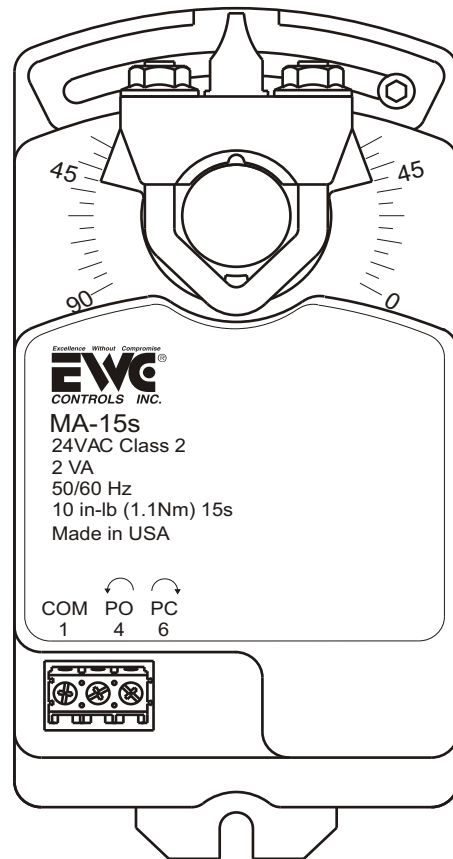
## SUBMITTAL SHEET

### Model MA-15s Actuator

The MA-15S motor actuator is easy to install, easy to wire up, and comes with a 5 year warranty. The superior design insures long life and zero maintenance. *The Motor can be oriented in any position in a conditioned area.* The UL Listed Motor Actuator is a 24v ac/dc 3 wire power open & power close type, rated at 18 inch lbs. of torque and 15 second travel time. *The MA-15S can also operate in floating mode and is compatible with Carrier® Infinity & Bryant® Evolution communicating zone control systems.* The MA-15S includes an integrated wiring terminal block, and has a NEMA1 rated housing. Dual End-Stop adjustments allow for a maximum Open and Minimum Close field position capability. The MA-15S is typically specified on Ultra-Zone® URD and ND style dampers.

#### Technical Data

<b>Power Supply</b>	24V ac/dc ± 20% 50/60Hz Class 2
<b>Power Consumption</b>	2.0VA, 1.5 W
<b>Electrical Connection</b>	Screw Terminal (18 AWG Wire)
<b>Control Function</b>	Open / Close or Floating Point
<b>Torque</b>	18 in-lb [2 Nm]
<b>Angle of Rotation</b>	Max. 95°, adjustable w/end stops
<b>Direction of Rotation</b>	Position "0" = Open, Position "1" = Close
<b>Manual Gear Override</b>	External Push Button
<b>Running Time</b>	15 seconds, constant independent of load
<b>Humidity</b>	5 to 95% RH Non-Condensing
<b>Ambient Temperature</b>	-22°F to +122°F [-30°C to +50°C]
<b>Storage Temperature</b>	-40°F to +176°F [-40°C to +80°C]
<b>Housing</b>	NEMA 1 / IP20
<b>Housing Material</b>	UL94-5VA
<b>Agency Listings</b>	cULus
<b>Noise Level</b>	45dB(A)
<b>Service</b>	Maintenance Free
<b>Extended Back Plate</b>	Easy Mounting



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

#### SUBMITTAL FORM

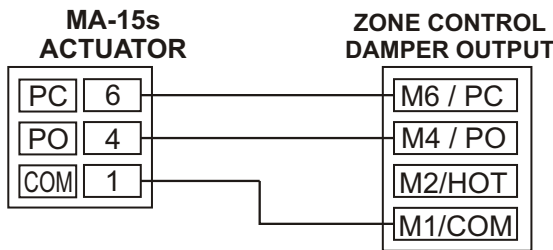
SUBMITTED BY: \_\_\_\_\_  
 JOB: \_\_\_\_\_  
 ARCHITECT: \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_

### WIRING SOLUTIONS

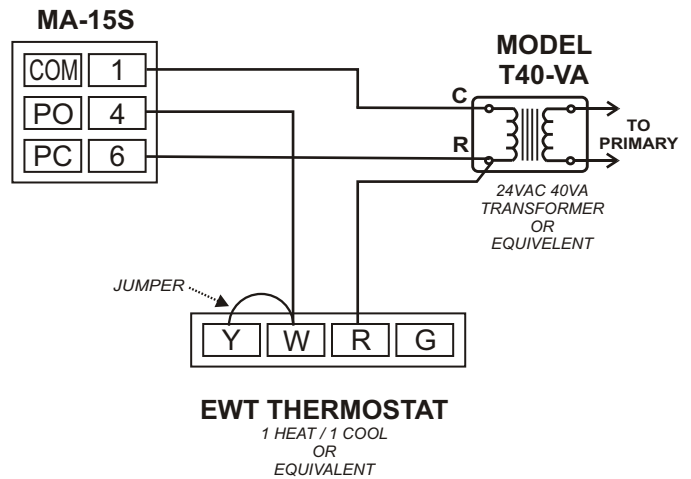
#### Motor Actuator Terminals

TERMINAL	DESCRIPTION
1	24v Com.
4	Power Open
6	Power Close

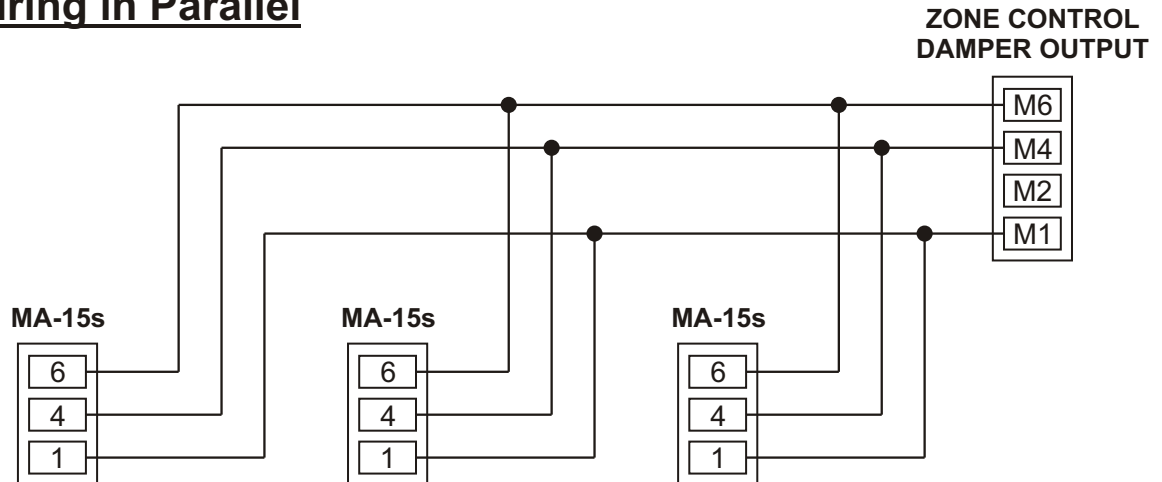
#### Wiring to a Zone Control Panel



#### Wiring a Thermostat to Control a Single Damper



#### Wiring in Parallel



**NOTE:** You may electrically parallel several MA-15S motors together on a single zone. However, **DO NOT** parallel the MA-15S with original Carrier/Bryant damper motors on the same zone. The back-feed characteristic of the Carrier/Bryant motors is not compatible with the MA-15S motors.