Variable Air Damper Motor

Datasheet Modified 05-10-25 by RL

PRODUCT DESCRIPTION

The Actuator is intended for ON-OFF and floating point controls in HVAC systems. It can easily mount on an 1/2" round or square shaft with solid screw sets.

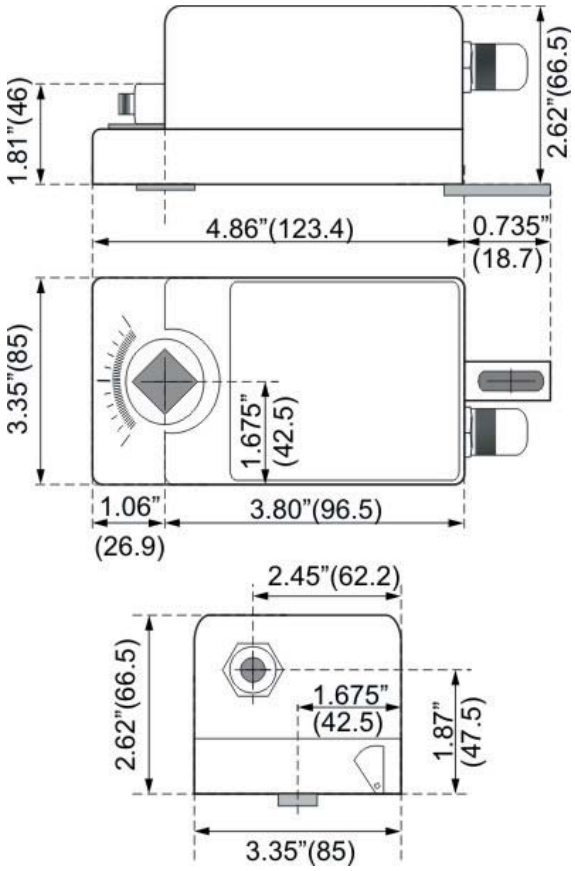
Angle of rotation is mechanically limited to 90°. When the actuator reaches its maximum position, the device will automatically stop. An override lever is provided on the side to manually disengage the gear. Two mechanical stops are provided for extra adjustments.

The device is equiped with a safety overload-proof to avoid burn-outs and allow consistent running time independent to the load.

Highlights:

- **Simple Direct Mounting**
- **Stall-Proof Synchronous AC Motor**
- **Adjustable Angle of Rotation with Mech. Stops**
- **Manual Override Lever**
- **Consistent running time**
- **Visual Position Indicator**

SPECIFICATIONS



TEMCO Variable Air Damper Motor SRD02-0624

Power Supply …..…..... 24Vac ±20%, 50-60Hz
Power consumption …..... 2.5W
Recommended Wire Sizing 3VA
Control ..... ON-OFF/ Floating point
Angle ..... max 90^0, with adjustable mech. stops
Torque 6Nm
Running Time 110s
Manual Override ..... external lever
Temperature:
Ambient ..... -30°C to +50°C
Storage ..... -40°C to +80°C
Humidity ..... 5 to 95% RH
Position indication ..... mechanical

Applications

- Position Control of Dampers and Valves in HVAC systems

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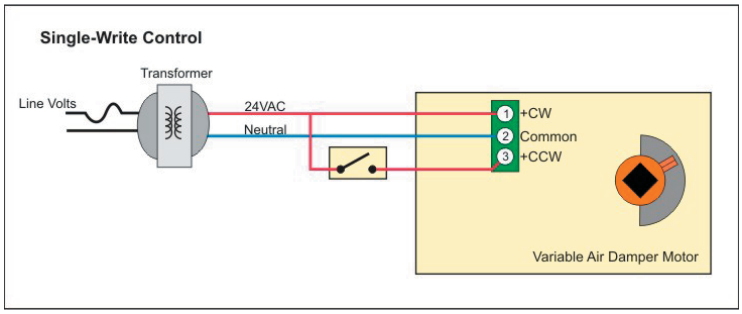
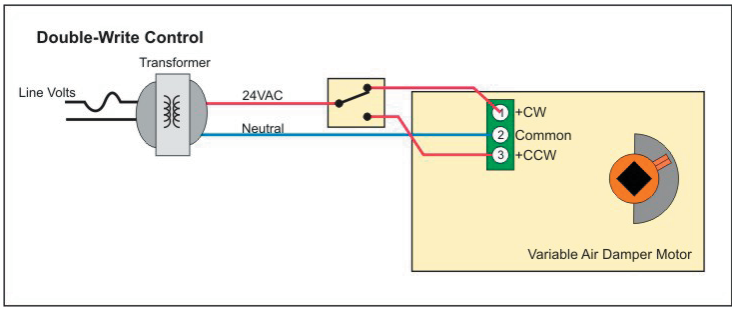
WIRING EXAMPLE AND INSTALLATION





Wiring Notes:

- Actuator must be connected by 24Vac
- Actuator screw terminal numbers are shown as the diagram
- Switching wire 1 and 3 will change rotation direction

MOUNTING AND USAGE

1 - Make sure Damper blade is at its fully closed position.

2 - From the bottom view, with the manual override lever pushed to the right.
Rotate actuator angle close to zero, depending on damper seal design.

3 - With Actuator angle set at almost zero, slide in actuator over shaft.

4 - Install bottom screw and thighten hex solid set screws

Note:
- The actuator should be mounted in a non corrosive area or sealed against unwanted agents.