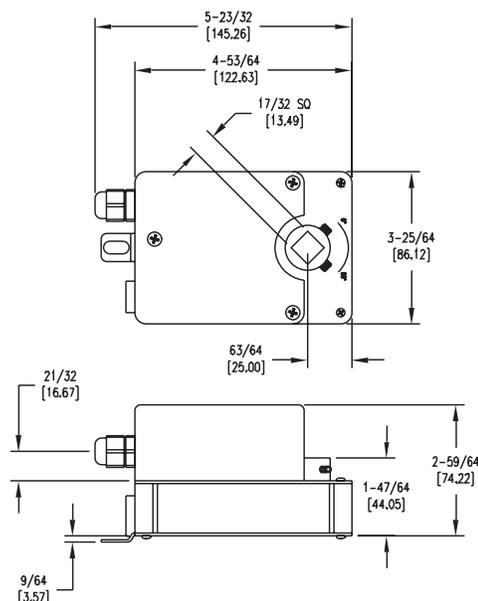




## Series DDA 17, 35, 53 and 70 in-lb On/Off Damper Actuator

### Specifications - Installation and Operating Instructions



**DDA Series Direct Coupled Actuators** are non-spring return actuators that are perfect for positioning of dampers and valves in HVAC systems. Actuators are designed to accept floating control signals and come in a variety of power supplies. Actuators produce 17 to 70 in-lb (2 to 8 Nm) of torque. Contact factory for optional internal auxiliary switch.

#### Features

- Direct mount.
- Actuator travel indicator.
- Overload protection.
- Manual override.
- Floating control signal.
- 60,000 cycles nominal.

#### FUNCTION TESTING

Press the manual button on the back of the actuator. The gearing inside the actuator will break away. The damper can be operated manually while pressing the manual button. **DO NOT OPERATE WHEN POWER IS ON!**

#### SPECIFICATIONS

**Power Requirements:** 110 VAC, 24 VAC,  $\pm 10\%$ , 50/60 Hz, single phase. Optional 230 VAC.

**Power Consumption:** 110 VAC models: 5 VA, 230 VAC models: 5 VA, 24 VAC models: 3 VA.

**Control Input:** Two-position, floating.

**Overload Protection:** Magnetic clutch.

**Angle of Rotation:** 95° (mechanically adjustable).

**Fits Shaft Diameter:** 0.4" (10 mm) or 0.5" (13 mm).

**Position Indication:** Visual indicator.

**Direction of Rotation:** CW/CCW.

**Running Time:** 17 in-lb, 35 in-lb, 53 in-lb: 72 sec.; 70 in-lb: 160 sec.

**Electrical Connection:** Terminal block, 18 AWG.

**Manual Override:** Push button.

**Temperature Limit:** -22 to 122°F (-30 to 50°C).

**Sound:** <45 dB.

**Life Expectancy:** 60000 full cycles.

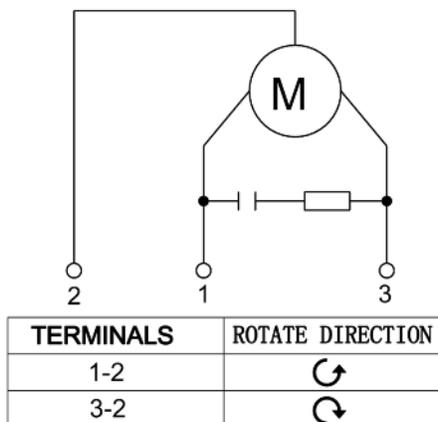
**Housing:** NEMA 2 (IP48).

**Standard Accessories:** (2) imitative baffles, (2) baffle setscrews, (1) actuator body setscrew, and (1) aluminum gasket.

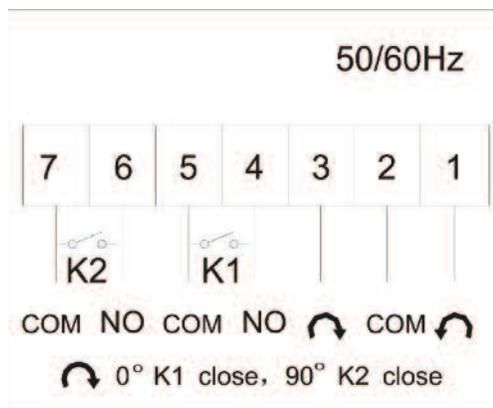
**Weight:** 1.72 lb (0.78 kg).

**WIRING DIAGRAM**

(Normal model)

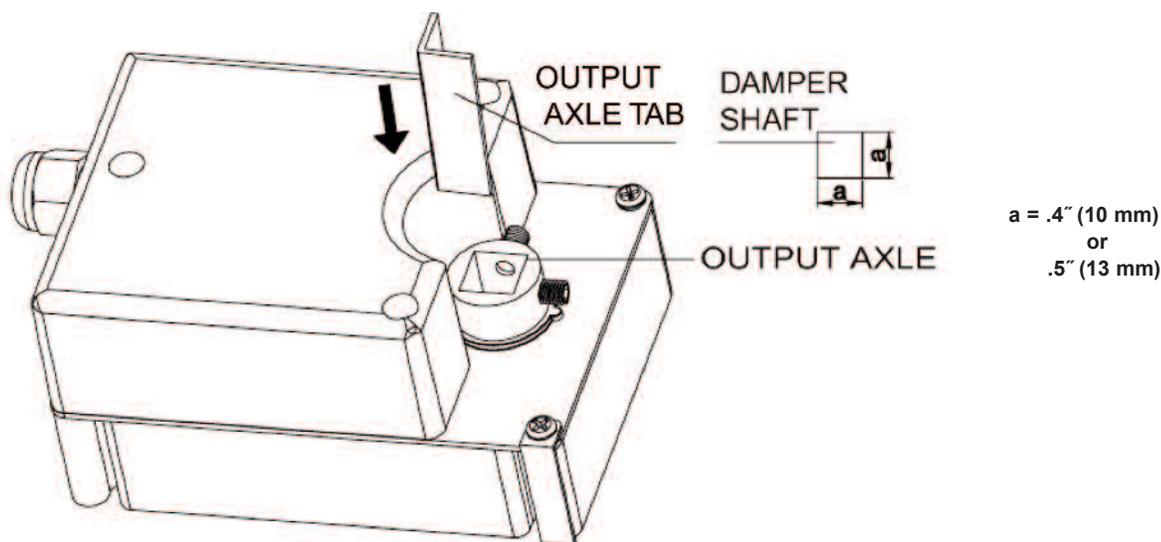


**MODELS (With optional auxiliary switches)**



**INSTALLATION**

Before installation, the aluminum gasket should be put into the hole of Output Axle. Install the damper actuator on the damper shaft by universal holder.



**MAINTENANCE**

Upon final installation of the Series DDA Non-Spring Return Direct Coupled Actuator, no routine maintenance is required. A periodic check of the system calibration is recommended. The Series DDA is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return good authorization number before shipping.