

ACT24 FLOATING POINT CONTROL DIRECT COUPLED ACTUATOR



SPECIFICATIONS

Direct coupled electronic actuator

Power Supply:

24 VAC \pm 20% 50/60 Hz
24 VDC \pm 10%

Power Consumption: 2 W

Transformer Sizing:

3 VA (Class 2 power source)

Electrical Connection:

Screw terminal (for 26 to 16 GA wire)
Recommended screw torque: 4 to 5 in-lbs.

Control Method:

On/Off control Floating point control

Overload Protection:

Electronic throughout 0 to 95° rotation

Angle of Rotation:

Max 95°, adjust. with mechanical stops

Torque: Min 35 in-lb [4 Nm]

Direction of Rotation:

Reverse terminal 2 and 3 wires

Running Time:

80 - 100 sec. for 0 to 35 in-lb

Manual Override: External push button

Environmental

Storage:

-40°F to +176°F [-40°C to +80°C]
5 to 95% rH, non-condensing

Operating:

-22°F to +122°F [-30°C to +50°C]
5 to 95% rH, non-condensing

Housing Type: NEMA type 1

Housing Material Rating: UL94-5V

Noise Level: Less than 35 dB (A)

Servicing: Maintenance free

Weight: 1.2 lbs [0.55 kg]

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DIRECT COUPLED ACTUATOR

The ENVIRO-TEC® Model ACT24 direct coupled actuator is used for floating point control of dampers in HVAC systems. The ACT24 replaces all former ENVIRO-TEC actuator models, and may be used with ENVIRO-TEC AC drive controllers and most controllers by other manufacturers. With the addition of a Model ETAC DC to AC actuator drive interface, it may also be used with ENVIRO-TEC DC actuator drive controllers.

FEATURES

- May be powered by 24 VAC or VDC.
- Motor is electronically protected against overload (no limit switches required).
- A release button on actuator cover allows the actuator gears to be disengaged for manual positioning of the damper.
- Easy mounting of actuator with anti-rotation bracket. Requires no crank arm or linkage.
- Simple wiring allows for easy change of rotation direction.
- Multiple actuators may be powered from one transformer (see wiring data).
- ACT24 may be powered from the same transformer as the ETI controllers using the appropriate wiring diagram.
- External screw terminal block for easier field termination.
- Manufactured under ISO 9001 International Quality Control Standards.

ANGLE OF ROTATION LIMITING

The angle of rotation is mechanically limited to 95°. Adjustable stops are provided when there are no damper stops, or if you want the damper to halt rotation before it reaches its stops. The ACT24 actuator can be indefinitely stalled in any position without harm to the actuator, while providing adequate holding torque.

MAINTENANCE

The ACT24 actuator requires no routine maintenance or calibration.

ENVIRONMENTAL TECHNOLOGIES, INC.

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