



## Models

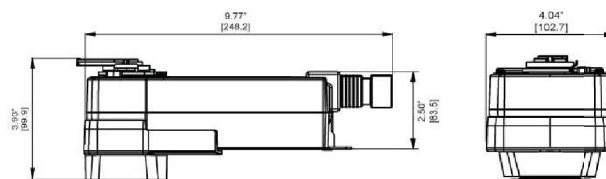
AFRB24  
AFRB24-S  
AFRX24  
AFRX24-S

Technical Data	
Power supply	24 VAC $\pm$ 20% 50/60 Hz 24 VDC +20% / -10%
Power consumption	running 5 W holding 2.5 W
Transformer sizing	7.5 VA (class 2 power source)
Electrical connection	
AFRB24...	3 ft., 18 GA appliance cable, 1/2" conduit connector <b>-S models:</b> two 3 ft., 18 gauge appliance cables with 1/2" conduit connectors
AFRX24...	3 ft. [1m], 10 ft. [3m] or 16 ft. [5m] 18 GA appliance or plenum cables, with or without 1/2" conduit connector <b>-S models:</b> two 3 ft. [1m], 10 ft. [3m] or 16 ft. [5m] appliance cables, with or without 1/2" conduit connectors
Overload protection	electronic throughout 0 to 95° rotation
Control	on/off
Direction of rotation	spring reversible with CW/CCW mounting
Angle of rotation	95°
Running time	motor < 75 seconds spring 20 seconds @ -4°F to 122°F [-20°C to 50°C]; < 60 seconds @ -22°F [-30°C]
Position indication	visual indicator, 0° to 95° (0° is full spring return position)
Manual override	5 mm hex crank (3/16" Allen), supplied
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, IP54, Enclosure Type2
Agency listings †	cULus according to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC & 2006/95/EC
Noise level	<50dB(A) motor @ 75 seconds <62dB(A) spring return
Quality standard	ISO 9001

† Rated Impulse Voltage 800V, Type of action 1.AA (1.AA.B for -S version), Control Pollution Degree 3.

AFRB24-S, AFRX24-S	
Auxiliary switches	2 x SPDT 3A (0.5A) @ 250 VAC, UL approved one set at +10°, one adjustable 10° to 90°

## Dimensions



## Wiring Diagrams

### ✂️ INSTALLATION NOTES

- 1 Provide overload protection and disconnect as required.
- 2 **CAUTION Equipment Damage!**  
Actuators may be connected in parallel.  
Power consumption and input impedance must be observed.
- 3 Actuators may also be powered by 24 VDC.
- 4 For end position indication, interlock control, fan startup, etc., AFRB24-S and AFRX24-S incorporates two built-in auxiliary switches: 2 x SPDT, 3A (0.5A) @250 VAC, UL Approved, one switch is fixed at +10°, one is adjustable 10° to 90°.

### 📋 APPLICATION NOTES

- ◆ Meets cULus requirements without the need of an electrical ground connection.

**⚠️ WARNING Live Electrical Components!**  
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

