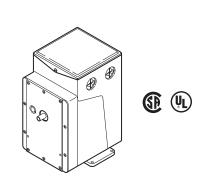
Two-Position, Non-Spring Return Actuators

This actuator provides two-position operation of dampers or valves in heating, ventilating, and air conditioning systems, and similar applications where return-to-normal position is not required.

Features:

- Two-position actuators controlled by SPDT controller.
- Non-spring return.
- 24, 120, and 240 Vac models available.
- SPDT auxiliary switch is standard.
- Rugged die cast aluminum housings.
- Oil immersed motor and gear train.

Model Chart



Model No.	Input					Rated Torque Ib-in.
	Volts	Hz	Watts	VA Rating	No Load Timing (sec/180°)	(N-m)
MC-351	24	60	28	53	70	220 (25)
MC-421	120	60	50	96	20	175 (19)
MC-431	120	60	50	96	30	220 (25)
MC-4311	240	60	50	96	30	220 (25)
MC5-4311 ^a	240	50	50	96	36	220 (25)

a No CSA on MC5-4311.

Specifications		
Control Circuit	Three wire, SPDT snap-acting switch provided by a thermostat, pressure switch, or relay.	
Shaft Rotation	on Unidirectional clockwise 180° when power is applied.	
Auxiliary Switch Adjustable SPDT is standard. Factory set to make (or break) at mid-stroke.		
Nominal Damper Ares Actuator sizing should be done in accordance with damper manufacturer's speci		
Environment		
Ambient temperature limits	Shipping and storage: -40 to 136°F (-40 to 58°C). Operating: -40 to 136°F (-40 to 58°C).	
Humidity	5 to 95% RH, non-condensing.	
Locations	NEMA Type 1. NEMA 4 with AM-363.	
Connections	Coded screw terminals.	
Case	Die cast aluminum with two 1/2 in. conduit knock-outs on each side.	
Mounting	Allow 6 in. (152 mm) clearance above the actuator wiring compartment.	
Dampers	Any position.	
Valves	In any upright position with actuator above the center line of the valve body.	
Dimensions	7 H x 5-3/8 W x 6-5/16 D in. (178 x 137 x 160 mm).	
Options	Hazardous locations: specify MC6-431, MC6-4311 (60 Hz), MC7-4311 (50 Hz).	
General Instructions	Refer to F-08366.	

Adjustable Auxiliary Switch SPDT Rating Amps.

Туре	120 V	240 V
Running	5.8	2.9
Locked Rotor	34.8	17.4
Non-Inductive	12.0	6.0

Accessories

A000001100		
Model No.	Description	
Damper linkage accessories		
AM-111	Crank arm for 5/16 in. (7.9 mm) diameter damper shaft.	
AM-112	Crank arm for 3/8 in. (9.5 mm) diameter damper shaft.	
AM-113	Crank arm for actuator or 1/2 in. (12.7 mm) diameter damper shaft.	
AM-115	Crank arm for 7/16 in. (11.1 mm) diameter damper shaft.	
AM-116	Splined crank arm for actuator.	
AM-122	Linkage connector straight type.	
AM-123	Damper clip.	
AM-125	5/16 in. (7.9 mm) diameter x 20 in. (508 mm) damper rod.	
AM-125-048	5/16 in. (7.9 mm) diameter x 48 in. (1,219.2 mm) damper rod.	
AM-132	Ball joint connector.	
AM-161	Damper linkage kit.	
AM-161-1	Damper linkage kit.	
AM-301	90 degree mounting bracket.	
Miscellaneous actuator accessories		
AM-321	Two step switch kit.	
AM-341	Four step switch kit.	
AM-363	NEMA 4 gasket kit.	
Valve linkage accessories		
AV-30 & AV-300	Valve linkage for 2-1/2 in. & 3 in. VB-9323.	
AV-352	Valve linkage for 2-1/2 in. to 6 in. VB-9213, 2-1/2 in. through 6 in. VB-9313, 4 in. through 6 in. VB-9323.	
AV-393	Valve linkage for 1/2 to 2 in. VB-7xxx and 1/2 in. to 1-1/4 in. discontinued VB-92x3, or VB-93x3.	
AV-394	Valve linkage for 1-1/2 in. and 2 in. VB-92X3, or VB-93x3	
AV-396	Valve linkage for 2-1/2 in. to 4 in. VB-9213, and VB-9313.	

Typical Applications

