MC-351, MC-421, MC-431, MC-4311, MC5-4311

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



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^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	Unidirectional clockwise 180° when power is applied. Adjustable SPDT is standard. Factory set to make (or break) at mid-stroke. Actuator sizing should be done in accordance with damper manufacturer's specifications.	
Auxiliary Switch		
Nominal Damper Ares		
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. Die cast aluminum with two 1/2 in. conduit knock-outs on each side.	
Case		
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

	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



