

1. Damper Actuators

Mx40-717x Series 150 lb-in Direct Coupled SR

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Features

- Direct mount to round or square damper shaft
- 150 lb-in (17 N-m) torque rating, overload protection throughout rotation
- Oil immersed gear train provides continuous lubrication
- Automatic current sensing motor control provides extended reliability and repeatable timing
- Provides true mechanical clockwise or counterclockwise spring return operation for reliable positive close-off in airtight applications
- NEMA 4 housing (IEC IP56)
- Can be double mounted (gang mounting) to accommodate high torque application requirements (2 to 4 actuators)
- MS40-717x models provide position feedback signal
- Linkage required for Globe Valve Assembly.



Product Description

Designed for controlling air dampers in building systems that require fail safe return, with two position, floating or proportional control.

Specifications	
Control Signal	Two wire, SPST or Triacs. SPDT floating control output, Triacs (500 mA rated), or 2 SPST contacts. Proportional, 2...10 Vdc or 4...20 mA dc with the addition of a 500 ohm resistor (not included).
Power Inputs	See table.
Connections	Class 1: 24 inch (61 cm) long appliance cables, 18 AWG color coded leads. 1/2 in. conduit connector. Class 2 Power and Control: 36 inch (91 cm) Long, 22 AWG color coded appliance cable pigtail leads. 1/2 in. conduit connector.
Electrical Outputs	Travel: Electronically limited to 92° ±1° (MS). MF-MA Mechanically limited To 101° ±1°.

Mechanical Outputs	Position Indicator: Pointer and scale are provided.
Ambient Temperature Limits	Shipping & Storage: -40 F...160°F (-40...71°C). Operating: -25...140 °F (-32...60 °C). Humidity: 5...95% RH, non-condensing.
Location	NEMA 1 (IEC IP10). NEMA 4 (IEC IP 56) with customer supplied water tight conduit connectors.
Agency Listings	UL 873, Underwriters Laboratories (File #9429 Category Temperature-Indicating and Regulating Equipment). Canadian Standards C22.2 No. 24-93.
Applicable Literature	F-26646 Selection Guide

Part Number	Torque lb-in (N-m)	Spring Return	Actuator Inputs			Outputs		Approximate Timing in seconds @ 70°F				
			Control	Voltage	VA @ 60Hz	Feedback	Auxiliary Switch	Powered	Spring Return			
MA40-7170	150 (17)	CW/CCW	2-Position	120 Vac	8.4	—	No	162	82			
MA40-7173				24 Vac/dc	7.4							
MF40-7173			Floating	120 Vac	8.5							
MS40-7170				240 Vac	10.8							
MS40-7171			2...10 vdc	24 Vac/dc	7.8					2...10 vdc	147	65
MS40-7173												