

1. Damper Actuators

Mx40-704x Series 35 lb-in Direct Coupled SR

Mx40-704x Series 35 lb-in Direct Coupled Actuators

Features

- Direct mount to round or square damper shaft
- 35 lb-in (4 N-m) torque rating
- Overload protection throughout rotation
- Optional built-in auxiliary switches
- True mechanical clockwise or counterclockwise spring return operation for reliable, positive close-off in airtight applications
- Visual position indicator
- Direct acting or reverse acting control mode available on proportional models
- Rotation limiting available
- Rugged die-cast housing for NEMA 2/IP54 rating



Product Description

For spring return applications requiring floating, two-position, or proportional modulation control of dampers and valves in HVAC systems. Directly mounts to 1/2" ... 3" Schneider Electric ball valves.

Specifications	
Control Signal	On-off, SPST control contacts or Triacs (500 mA rated). Floating point control, 24 Vac. Proportional, 2...10 Vdc or 4 to 20 mA dc with a 500 W resistor.
Power Inputs	See table.
Connections	MA40-704x and MA40-704x-501 — 3 ft. (91 cm) long, appliance cables, 1/2 in. conduit connector. For M20 Metric conduit, use AM-756 adaptor. MF40-7043 and MF40-7043-501, MS40-7043 and MS40-7043-501 — 3 ft. (91 cm) long, plenum-rated cables, 1/2 in. conduit connector. For M20 Metric conduit, use AM-756 adaptor.
Electrical Outputs	Position Feedback Voltage "AO": 2...10 Vdc (maximum 0.5 mA) output signal for position feedback or operation of up to four slave actuators. One auxiliary switch available (select models). SPDT 6a resistive @24 Vac or 250 Vac.

Mechanical Outputs	Travel Rotation is limited to 95° ± 5° maximum, adjustable from 40...95° with a mechanical stop. RA/DA Switch: selects direct acting or reverse acting for proportional models. Position Indicator: Visual indicator, 0...1 (0 is the spring-return position).
Ambient Temperature Limits	Shipping & Storage: -40 F...160°F (-40...71°C). Operating: -22...140°F (-30...60°C). Humidity: 5...95% RH, non-condensing.
Location	NEMA 2 (IEC IP54)
Agency Listings	UL 873: Underwriters Laboratories (File # E9429 Category Temperature-Indicating and Regulating Equipment). CUL: UL LISTED for use in Canada by Underwriters Laboratories. Canadian Standards C22.2 No. 24.
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
MA40-7040	35 (4)	CW/CCW	2 Position	120 Vac	4.3	—	—	<50	<28
MA40-7040-501							1-SPDT (250 Vac)		
MA40-7041				—					
MA40-7041-501				1-SPDT (250 Vac)					
MA40-7043				—					
MA40-7043-501				1-SPDT (24 Vac)					
MF40-7043			Floating	24 Vac/dc	5.9	2...10 vdc	—	<130	<25
MF40-7043-501							1-SPDT (24 Vac)		
MS40-7043							—		
MS40-7043-501							1-SPDT (24 Vac)		