

1. Damper Actuators

Mx41-60x3 Series 44/88 lb-in Direct Coupled NSR Actuators

Mx41-60x3 Series

44 lb-in and 88 lb-in Direct Coupled Damper Actuators

Features

- Compact, lightweight design.
- Easy-to-see position indicator.
- Self-adapting capability for maximum flexibility in damper positioning.
- Quiet, low-power operation.
- Manual Override.
- Plenum cable standard.
- Independently adjustable dual auxiliary switches option available (MX41-6043-5X2).
- Feedback position output signal available (MS41-6043 Series).



Specifications	
Control Signal	MF41-6043 — Floating three-position control, 24 Vac. MS41-6043 — Proportional, 0 to 10 Vdc; input resistance 100 kW.
Power Inputs	See Table.
Connections	3 ft. (0.9 m) appliance cable, 18 AWG plenum-rated leads
Electrical Outputs	Feedback potentiometer available for MF41-6043: 0...1000 ohms < 10 mA. Position feedback voltage for MS41-6043/6083: 0...10 Vdc, 1 mA. Auxiliary Switches: Dual auxiliary switches available with MF41-6043/6083-502, MS41-6043/6083-502, and MS41-6083-522 when these actuators are ordered as separate units. Auxiliary switches are not offered with factory ball valve assemblies
Mechanical Outputs	Travel: Normal angle of rotation is 90°, limited to a maximum of 95°. Field adjustable to limit travel on either end of stroke.

Product Description

These direct coupled 24 Vac Non-Spring Return rotary electric SmartX Actuators are designed for three position (floating) control of dampers.

Ambient Temperature Limits	Shipping and storage: -40...158 °F (-40...70 °C) Operating: -25...130 °F (-32...55 °C) ambient. NOTE: Check the valve operating temperature limit. The minimum valve temperature limit is 20 °F (6.7 °C) 5...95% RH, non-condensing.
Location	NEMA Type 2 (IEC IP54)
Agency Listings	c-UL-us LISTED per UL 873 and CAN C22.2 No.24-93. CE compliant to directives LVD, EMC, and RoHS2.
Applicable Literature	F-26646 Selection Guide

Part Number	Torque lb-in (N-m)	Actuator Inputs			Outputs		Approximate Timing in sec. @ 70°F		
		Control	Voltage	VA @ 60Hz	Feedback	Auxiliary Switch			
MF41-6043	44 (5)	Floating	24 Vac	2.3	—	—	90		
MF41-6083	88 (10)						2-SPDT	125	
MF41-6083-502								90	
MS41-6043	44 (5)	0...10 vdc		3.3	3.3	0...10 vdc	—	90	
MS41-6083	88 (10)							2-SPDT	125
MS41-6083-502									90