

1. Damper Actuators

Mx41-6153 Series 133 lb-in Direct Coupled NSR Actuators

Mx41-6153 Series

133 lb-in Direct Coupled Damper Actuators

Features

- Synchronous motor technology with stall protection
- Unique self-centering shaft coupling
- Manual override
- 133 lb-in (15 N-m) torque
- 5° preload as shipped from factory
- Mechanical range adjustment capabilities
- Offset and span adjustment models available
- Models with independently adjustable, dual auxiliary switches available
- Built-in 1/2" conduit connection
- UL and cUL LISTED, CE certified



Product Description

The direct-coupled, 24 Vac, non-spring return electronic SmartX actuator is designed for modulating and three-position control of building HVAC dampers requiring up to 133 lb-in (15 N-m) torque.

Specifications	
Control Signal	MF41-6153 — Floating three-position control, 24 Vac. MS41-6153, MS41-6153-502 — Proportional, 0 to 10 Vdc; input resistance 100 kW.
Power Inputs	See Table.
Connections	3 ft. (0.9 m) long, 18 AWG leads
Electrical Outputs	Position output signal (wires 9-2) MS41-6153 Series Voltage-output 0...10 Vdc Maximum output current ±1 mA
Mechanical Outputs	Nominal angle of rotation 90° Maximum angular rotation 95°

Ambient Temperature Limits	Operating: -25°F...130°F (-32°C...55°C) Storage: -40°F...158°F (-40°C...70°C) Ambient humidity: 95% rh (non-condensing)
Location	NEMA 1/IP54 accableing to EN 60 529
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	
MF41-6153	133 (15)	Floating	24 Vac	3	—	—	125
MS41-6153		0...10 vdc		5	0...10 vdc	2-SPDT	
MS41-6153-502							