

1. Damper Actuators

Mx41-634x Series 300 lb-in Direct Coupled NSR Actuators

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Features

- 300 lb-in (34 N-m) rated torque
- NEMA Type 4 housing (IEC IP56)
- Custom automatic current sensing motor control provides extended reliability and repeatable timing
- Direct coupled to the damper shaft with dual industrial hardened universal mounting clamps
- Integral wiring for proportional control by 2...10 Vdc or 4...20 mA dc¹
- Clockwise or counterclockwise rotation is determined by actuator mounting position
- Manual override for ease of installation and manual operation of damper
- Accurate 92° travel digitally controlled
- Integral position indication scale
- Rugged die-cast housing
- Oil immersed gear train provides continuous lubrication
- Rated for operating temperatures up to 140 °F (60 °C)
- Five year warranty
- MS41-634x SmartX Actuators can be double mounted (gang mounting) to accommodate high torque application requirements (2 to 4 actuators)
- Position feedback signal



Product Description

Direct Coupled SmartX Actuators are designed to be used in both damper and valve control applications. The MS41-634x series actuators are over the shaft non-spring return actuators compatible with 2...10 Vdc or 4...20 mA dc¹ control signals.

Specifications	
Control Signal	SPDT floating control input; Triacs (500 mA rated) or 2 SPST contacts Floating: 24 Vac ± 20% Proportional: 2-10 Vdc 4-20 mAdc ^a
Power Inputs	See table.
Connections	3 ft. (91 cm) Appliance cable, ½" conduit connectors
Electrical Outputs	Travel: Mechanically limited to 101° ±1°
Mechanical Outputs	Overload Protection: Throughout rotation. Angle of Rotation: 93° nominal. Position Indication: Scale numbered from 0...95° Manual Override: Allows manual positioning.

Ambient Temperature Limits	Shipping & Storage: -40...160°F (-40...71°C). Operating: -25...140°F (-32...60°C). Humidity 5...95% non-condensing
Location	NEMA Type 1. NEMA Type 4 (IEC IP56) with customer supplied water tight conduit connectors
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

a - With the addition of a 500 ohm resistor (AM-708).

Part Number	Torque lb-in (N-m)	Actuator Inputs			Outputs		Approximate Timing in sec. @ 70°F
		Control	Voltage	VA @ 60Hz	Feedback	Auxiliary Switch	
MF41-6343	300 (34)	Floating	24 Vac/dc	5.7	2...10 vdc	No	162
MS41-6343		2...10 vdc		5.6			
MS41-6340		120 Vac	7.5	148			