Commercia Component

Direct Coupled Damper Actuator—Spring Return

Zelix[™] S03 Series: MS3103; MS4103; MS7403; MS7503; MS8103 Spring Return Direct Coupled Actuator, 27 lb-in



Actuator Type: Damper; Valve
Rotational Stroke: 95 ±3 degrees
Fail Safe Mode: Spring Return
Torque Rating: 27 lb-in. (3 Nm)
Spring Return Torque: 27 lb-in (3 Nm)
Spring Return Direction: By orientation

Dimensions, Approximate: 6 81/54 high x 3 55/84 wide x 3 5/32 deep

(177 mm high x 98 mm wide x 80 deep) **External Auxiliary Switches Available:** No

Electrical Connections: Enclosed screw terminal strip (22 to 14 AWG)

Environmental Rating: NEMA2 Ingress Protection Rating: IP54 Feedback: Sylk-enabled Frequency: 50 Hz; 60 Hz Mounting: Direct Coupled

Maximum Noise Rating, Holding (dBA @ 1m): 20 (no aud ble noise)

Maximum Noise Rating, Driving (dBA @ 1m): 40

Rotation to Open: By switch

The MS8103 is a 27 lb-in (3Nm), spring return direct-coupled, line voltage actuator that accepts two-position (SPST) control for: air dampers, air handlers, ventilation flaps, louvers, and ball valves.

- Brushless DC submotor with electronic stall protection on all models
- Self-centering shaft adaptor (shaft coupling) for wide range of shaft sizes
- Models available for use with two-position, SPST, line- (Series 40) or low- (Series 80) voltage controls
- Models available for use with floating or switched SPDT (Series 60) controls
- Models avail able for use with proportional current or voltage (Series 70) controls
- Models available with combined floating and modulating control in a single device
- · Models available with an internal end switch
- Models available with three-foot, 18 AWG color-coded cable
- Access cover to facilitate connectivity
- Durable plastic housing with built-in mechanical end limits
- Spring return direction field selectableShaft position indicator and scale
- UL (cUL) listed and CE compliant
- All models are plenum rated per UL873

Rotational Stroke Adjustment: Mechanically limited 5 degree

increments

Compatible Damper Shafts: 3/8 to 5/8 in. round or 1/4 to 1/2 in. square

(9 to 16 mm round or 6 to 13 mm square)

Shaft Adapter Type: Self-centering clamping

Supply Voltage: 24 Vac/dc

Materials: Plenum rated plastic housing

Operating Humidity Range (% RH): 5 to 95% RH, non-condensing Ambient Temperature Range: .-40 F to +149F (.-40 C to +65 C) Temperature Ratings (Shipping): .-40 F to +150F (.-40 C to +65 C) Storage Temperature Range: .-40 F to +150F (.-40 C to +65 C)

Weight: 3.5 lb (1.6 kg)

Includes: Mounting bracket, self-centering shaft adapter

Approvals

CE: EMC 2004/108/EC; Certification Low Voltage Directive 2006/95/EC;

IEC 60730-1 and Part 2-14

C-Tick: N314

Underwriters Laboratories, Inc: UL 873

Canadian Underwriters Laboratories, Inc. cUL C22.2 No. 24-93

Product Number	Control Signal	Feed- back	Timing (seconds)		Type of		Power			Number of	Ambient Temperature Range	
			Nominal Driving @ 60 Hz	Maximum Spring Return	Internal Auxiliary Switch	Switch Ratings	Consump-	Supply Voltage	Impe-	Internal Auxiliary Switch	(F)	(C)
MS3103J1030/U	Sylk-enabled	Sylk- enabled	90 sec	25 sec	_	_	6/3 VA	24 Vac/ dc	_	0	40 F to +149F	40 C to +65 C
MS4103A1030/U	Two position; SPST	_	45 sec	25 sec	_	_	6/9 VA	100 to 250 Vac	_	0	22 F to +149F	30 C to +65 C
MS4103A1130/U	Two position; SPST	_	45 sec	25 sec	adjustable 0-95 degrees	250 Vac, 8 A res (5 A ind)	6/9 VA	100 to 250 Vac	_	1	22 F to +149F	30 C to +65 C
MS7403A2030/U	3 kOhm2-10 Vdc (4-20 mA w/500 ohm resistor); On/Off; SPDT; Floating; Three position	2-10 Vdc	90 sec	25 sec	Min. Pos.	_	6/3 VA	24 Vac/ dc	Min. 95 kOhm	0	40 F to +149F	40 C to +65 C
MS7503A2030/U	(0)2-10 Vdc (4-20 mA w/500 ohm resistor); On/Off; SPDT; Floating	(0)2-10 Vdc	90 sec	25 sec	_	_	6/3 VA	24 Vac/ dc	Min. 95 kOhm	0	40 F to +149F	40 C to +65 C
MS7503A2130/U	(0)2-10 Vdc (4-20 mA w/500 ohm resistor); On/Off; SPDT; Floating	(0)2-10 Vdc	90 sec	25 sec	adjustable 0-95 degrees	250 Vac, 8 A res (5 A ind)	6/3 VA	24 Vac/ dc	Min. 95 kOhm	1	40 F to +149F	40 C to +65 C
MS8103A1030/U	Two position; SPST	_	45 sec	25 sec	_	_	6/3 VA	24 Vac/ dc	_	0	22 F to +149F	30 C to +65 C
MS8103A1130/U	Two position; SPST	_	45 sec	25 sec	adjustable 0-95 degrees	250 Vac, 8 A res (5 A ind)	6/3 VA	24 Vac/ dc	_	1	22 F to +149F	30 C to +65 C

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