

MS4103/MS4105/ MS7503/MS7505/ MS8103/MS8105

Spring Return, Compact type Direct-Coupled Damper Actuators
비례제어 및 2위치 제어 댐퍼 조작기(3Nm/5Nm)



개요

스프링 리턴 타입 직결형 댐퍼 조작기는 다음과 같은 분야에 비례제어 / 플로팅 / 2위치 제어를 제공합니다.

- 에어댐퍼
- VAV Unit
- 에어 핸들러
- 환기 플랩
- 통풍 구멍
- 3Nm / 5Nm까지의 댐퍼 지원
- 신뢰성 높은 제어동작

특징

- 소형 컴팩트 타입의 댐퍼 조작기
- 수동 조작 기능
- 어떤 방향으로도 설치 가능
- 기계적인 회전각 제한 기능

모델

| Models | Torque | Control Signal | Power Supply and Frequency | Switch | Drive Timing | VA Driving |
|---------------|---|---|---------------------------------------|-------------------|---------------------------------------|------------|
| MS8103A1030/U | 27 lb-in (3 Nm) | Two Position SPST | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | 0 | 45 sec | 7 VA |
| MS8103A1130/U | | | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | 1 | 45 sec | 7 VA |
| MS4103A1030/U | | | 120/230 Vac @ 50/60 Hz, +/-10% | 0 | 45 sec | 10 VA |
| MS4103A1130/U | | | 120/230 Vac @ 50/60 Hz, +/-10% | 1 | 45 sec | 10 VA |
| MS7503A2030/U | | (0)2-10 Vdc, Floating | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | 0 | 90 sec | 7 VA |
| MS7503A2130/U | | | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | 1 | 90 sec | 7 VA |
| MS7403A2030/U | | 2-10, Floating, Economizer (3 kOhm, 3-Position) | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | 0 | 90 sec | 7 VA |
| MS8105A1030/U | | | 44 lb-in (5 Nm) | Two Position SPST | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | 0 |
| MS8105A1130/U | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | 1 | | | 45 sec | 8 VA |
| MS4105A1030/U | 120/230 Vac @ 50/60 Hz, +/-10% | 0 | | | 45 sec | 11 VA |
| MS4105A1130/U | 120/230 Vac @ 50/60 Hz, +/-10% | 1 | | | 45 sec | 11 VA |
| MS7505A2030/U | (0)2-10 Vdc, Floating | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | | 0 | 90 sec | 8 VA |
| MS7505A2130/U | | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | | 1 | 90 sec | 8 VA |
| MS7405A2030/U | 2-10, Floating, Economizer (3 kOhm, 3-Position) | 24Vac @ 50/60 Hz, +/-20% 24Vdc +/-10% | | 0 | 90 sec | 8 VA |

특성 및 규격

Device Weight | 3.5 lbs (1.60 kg)

Ambient Operating Temperature |

-40° to 150° F (-40° to 65° C)

-22° to 150° F (-30° to 65° C) (Two position only)

Shipping and Storage Temperature | -40° to +150° F (-40° to +65° C) for 24 hours

Humidity Ratings | 5% to 95% R.H., Non-Condensing

Electrical Connections | Field wiring 18 AWG (0.5 mm) to 14 AWG (1.5 mm) conductors (stranded or solid) and up to 2 – 14 AWG (1.5mm) conductors (stranded) to screw terminals, located under the removable access cover.

Auxiliary Switch (One SPDT) |

Switch adjustable from 0–95°

500 uA Resistive at 5 Vdc (minimum)

250 Vac, 8 A resistive, 3 A inductive

Mounting: Self-centering shaft adapter (shaft coupling) |

Round damper shafts: 3/8 to 5/8 in. (9 to 16 mm)

Square damper shafts: 1/4 to 1/2 in. (6 to 13 mm)

Minimum Damper Shaft Length | 1 in. (25 mm); 3 in.(76 mm) recommended.

Spring Return Timing (at rated load) |

< 25 seconds @ -4° F to 130° F (-20° C to 55° C)

< 60 seconds @ -22° F (-30° C)

Stroke | 95° ±3°, mechanically limited.

Approvals |

UL873

IEC 60730-1 and Part 2?14

UL1097 for Double Insulation

CE Certification Low Voltage Directive 2006/95/EC

CE EMC 2004/108/EC

C-Tick N314

Enclosure Ratings | IP54, NEMA 2, Flame Resistance UL94-5VA

Input Impedance | 95 kOhms minimum.

Feedback Signal | 0(2)–10 Vdc, 3 mA minimum.

Noise Rating at 1m (Maximum) |

Driving

· Floating/Modulating/Econ: < 40 dB(A)

· 2-Position: < 50 dB(A)

Spring Return: < 60 dB(A)

외형 및 치수 (단위 : mm)

