

BUTTERFLY VALVES AND ACTUATORS

Modutrol Motors

Firing Rate Motors M9484D, E, F; M9494D, F Modutrol IV Motors

Overview



Reversing, proportional motors used to drive burner firing rate valves, dampers or auxiliary equipment. Replaces M941A, C, D motors.

Features & Benefits:

- Designed for flame safeguard applications in commercial/industrial oil or gas burner system
- Vibration resistant electronic drive circuit
- Regulated by three-wire proportional controller
- Stroke is field-adjustable to 90 or 160 degrees

Specifications

ENVIRONMENTAL CONDITIONS

Ambient Temperature Range

- -40 to +66 deg C (-40 to +150 deg F at 25 % duty cycle)

Enclosure Rating

- Wiring box provides NEMA 3 weather protection

CONTROL, SAFETY & TIMING CHARACTERISTICS

Standard Timing

- 15 s (90 deg)/30 s (160 deg) or extended timing options (2 min/4 min models)

DIMENSIONS & SIZE SPECIFICATIONS

Crankshaft Size

- 3/8 in (9.5 mm) square shaft

ELECTRICAL SPECIFICATIONS

Supply Voltage

- 24 VAC (external transformer) or 120/208/240 VAC, 50/60 Hz with internal transformer



ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

Torque Rating

- High-torque (150 lb-in) and extra-high torque (300 lb-in) depending on model suffix

Stroke Angle

- Fixed 90 deg or 160 deg , or field-adjustable 90 to 160 deg depending on suffix

Shaft Type

- Single-ended or dual-ended shaft (model dependent)

CONTROL, LOGIC & FUNCTIONAL BEHAVIOR

Control Type

- Series 90 proportional control

APPLICATIONS & COMPATIBILITY

Applications

- Combustion air dampers, gas valves, butterfly valves, HVAC and industrial process control
- Reversing, proportional motors for operating valves or dampers in Series 90 electric modulating circuits

STANDARDS & CERTIFICATIONS

Approvals

- UL Listed (E4436), CSA Certified (LR1620)

MATERIAL SPECIFICATIONS

Material

- Die-Cast Aluminum Housing

Filters

▼ CATEGORY

☒ Base Part

☒ Spare Part

▼ TYPE

☒ Modutrol Motor

☒ Actuator

☒ Damper Actuator

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Part Number	HK301215
Description	CTL, MTR, 150IN LB, 90° 160°, 30/60S M6284F1
Category	Base Part
Type	Modutrol Motor
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Part Number	HK61890
Description	ACT, 4 20MA, 60IN LB, 90°, 30S M7285C1009, 12
Category	Spare Part
Type	Actuator
	Order Online

Part Number	M7284A1012/U
Description	ModIV 150lb-in 120Vac Modulating 30-60s
Category	Base Part
Type	Modutrol Motor
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Part Number	M7284C1083
Description	MODUTROL MOTOR
Category	Base Part
Type	Modutrol Motor
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Part Number	M7284C1083/U
Description	Damper actuator
Category	Base Part
Type	Damper Actuator
	Order Online
Part Number	M9484D4006/U
Description	SPECIAL FOR CANADA 20 VA 24 VOLTS 90
Category	Base Part
Type	Modutrol Motor
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Part Number	M9484E1009/U
Description	ModIV 75lb-in 24Vac Modulating 15-30s
Category	Base Part
Type	Modutrol Motor
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Part Number	M9484E4003/U
Description	SERIES 2 MOD IV MOTOR
Category	Base Part
Type	Modutrol Motor
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Part Number	M9484F1007/U
Description	MODUTROL MOTOR
Category	Base Part
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Description	ModIV 75lb-in 24Vac Modulating 15-30s
Category	Base Part
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Product Number



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HK61890

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M7284A1012/U

ModIV 150lb-in 120Vac Modulating 30-60s

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ModIV 150lb-in 120Vac Modulating 30-60s

M7284C1083

MODUTROL MOTOR

M7284C1083

MODUTROL MOTOR

M7284C1083/U

Damper actuator

M7284C1083/U

Damper actuator

M9484D4006/U

SPECIAL FOR CANADA 20 VA 24 VOLTS 90

M9484D4006/U

SPECIAL FOR CANADA 20 VA 24 VOLTS 90

M9484E1009/U

ModIV 75lb-in 24Vac Modulating 15-30s

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M9484E4003/U

SERIES 2 MOD IV MOTOR

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MODUTROL MOTOR

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