## **Modutrol IV Motors**

## M4185 Line Volt; M8185 Low Volt Two-Position Modutrol IV™ Series 2 Motors



Application Type: Electric Fail Safe Mode: Spring Return Control Signal: Two position, SPST

Feedback: No

Frequency: 50 Hz; 60 Hz

External Auxiliary Switches Available: Yes Auxiliary Switch Ratings AFL - 120 Vac: 7.2A Auxiliary Switch Ratings ALR - 120 Vac: 43.2A Auxiliary Switch Ratings AFL - 240 Vac: 3.6A Auxiliary Switch Ratings ALR - 240 Vac: 21.6A Electrical Connections: Quick-connect terminals

Mounting: Foot-mounted Motor Shafts: Dual-ended shaft Shaft Shape: square

Shaft Dimensions: 0.375 in. (10 mm)

Shaft Rotation (upon control signal increase): Clockwise (as viewed

from power end) (normally closed)

Deadweight Load on Shaft (Either End): 200 lbs. Deadweight Load (Combined on both Shafts): 300 lbs. Series 41 and Series 81 Modutrol IV motors are 2-position (line- and low-voltage per motor control) spring-return motors. They are used to operate dampers or valves in applications where it is necessary or desirable to have the controlled element return to the starting position in the event of power failure or interruption.

- Fixed torque throughout the entire voltage range
- Integral spring return returns motor to normal position in the event of power failure
- Integral junction box provides NEMA 3 weather protection if motor is mounted in the upright position
- Motor and circuitry operate from 24 Vac
- Quick-connect terminals are standard--screw terminal adapter is available
- Adapter bracket for matching shaft height of older motors is available
- Motors have field adjustable stroke (90 to 160 degrees)
- Motors are designed for either normally open or normally closed valves and dampers
- Integral auxiliary switches are available factory mounted, or can be field added
- Motors can operate valve linkages from the power end or auxiliary end shafts for normally closed or normally open valve applications
- All models have dual shafts (slotted and tapped on both ends)

Ambient Temperature Range: -40 F to +150 F (-40 C to +60 C) Weight: 9.5 lb

**Approvals** 

CE: EN55011 (Emission) EN50082-2 (Immunity) 73/23/EEC (LVD) Underwriters Laboratories, Inc: Listed: File No. E4436, Guide No. XAPX for USA and Canada

## Accessories:

**4074ERU-**Weatherproofing kit. Protects motor from driving rain when mounted in any position

220736A-Internal Auxiliary Switch Assembly - 1 Switch 220736B-Internal Auxiliary Switch Assembly - 2 Switches

220738A-Adapter Bracket. Adjusts shaft height to match Modutrol III
220741A2-TP-Screw Terminal Adapter Kit for 2 position Modutrol IV
Series 2 motors - Converts quick-connect terminals to screw terminals

221455A-Infinitely adjustable Motor Crank Arm

**50017460-001-**24/120/230 Vac Internal Transformers for Series 2 and 3

Motors

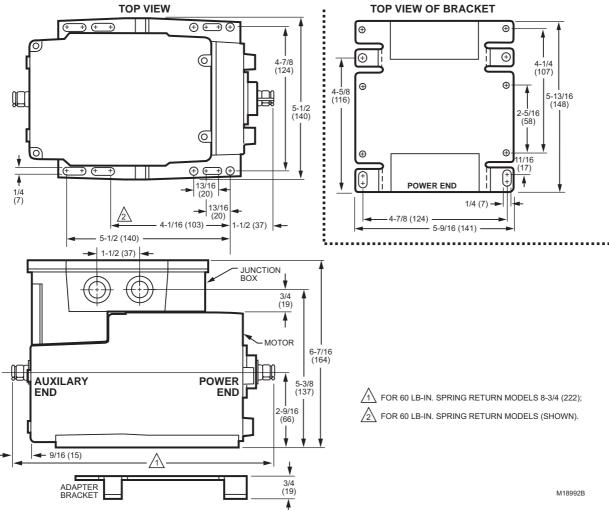
50017460-003-120 Vac Internal Transformers for Series 2 and 3 Motors

		Torque/Force			Nominal	Internal	Factory			luta wa al
	Product Number	lb-in., lb	Nm, N	Voltage	Timing (sec)	Auxiliary Switch	Stroke Setting	Stroke	Includes	Internal Transformer
	M4185A1001/U	60 lb-in.	6.8 Nm	120V	30-60 sec	0	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	Transformer	50004263-003
	M4185B1009/U	60 lb-in.	6.8 Nm	120V	30-60 sec	1	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	Transformer	50004263-003
	M4185B1058/U	60 lb-in.	6.8 Nm	24/120/230V	30-60 sec	1	90 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	Transformer	50004263-001
	M4185C1007/U	60 lb-in.	6.8 Nm	120V	30-60 sec	2	90 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	Transformer	50004263-003
*	M8185D1006/U	60 lb-in.	6.8 Nm	24V	30-60 sec	0	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	_	None
* -	TRADELINE models • S				30-60 Sec	U	160 degrees		_	ivone

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## Dimensions in inches (millimeters)



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