

M9175; M9185 Modutrol IV™ Series 3 Motors



Application Type: Electric

Dimensions, Approximate: 6 7/16 in. high x 5 1/2 in. wide x 8 3/4 in. deep (164 mm high x 140 mm wide x 222 mm deep)

Fail Safe Mode: Spring Return

Control Signal: Proportional, 135 ohm

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

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.

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

Series 90 Modutrol™ Motors are spring return modulating proportional control motors used with controllers that provide a Series 90 output to operate dampers or valves.

- Integral junction box provides NEMA 3 weather protection if motor is mounted in the upright position
- Integral spring return in the event of power failure
- 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)
- Integral auxiliary switches are available factory mounted, or can be field added
- Spring return motors can operate valve linkages from power end or normally open valve applications
- All models have dual shafts (slotted and tapped on both ends)
- All models have auxiliary switch cams
- Fixed torque throughout the entire voltage range

Weight: 8.5 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:

Q7230A1005-Interface module, provides adjustable zero & span, voltage or current control

220736A-Internal Auxiliary Switch Assembly - 1 Switch

220736B-Internal Auxiliary Switch Assembly - 2 Switches

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

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

221455A-Infinitely adjustable Motor Crank Arm

220738A-Adapter Bracket. Adjusts shaft height to match Modutrol III motors

220741A2-90-Screw Terminal Adapter Kit for Series 90 Modutrol IV Series 2 and Series 3 motors - Converts quick-connect terminals to screw terminals

	Product Number	Torque/Force		Voltage	Nominal Timing (sec)	Electrical Connections	Internal Auxiliary Switch	Factory Stroke Setting	Stroke	Internal Transformer
		lb-in., lb	Nm, N							
	M9185A1018/U	60 lb-in.	6.8 Nm	24V	30-60 sec	Quick-connect terminals	0	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	None
	M9185C1006/U	60 lb-in.	6.8 Nm	24V	30-60 sec	Quick-connect terminals	2	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	None
*	M9185D1004/U	60 lb-in.	6.8 Nm	24V	30-60 sec	Quick-connect terminals	0	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	None
	M9185E1019/U	60 lb-in.	6.8 Nm	24V	30-60 sec	Quick-connect terminals	1	90 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	None
	M9185F1002/U	60 lb-in.	6.8 Nm	24V	30/53	Screw terminals	2	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	None
* TRADELINE models • SUPER TRADELINE models										