

Modutrol IV™ Motor with Linear 10K Feedback



Series 62 Modutrol IV™ Motors Spring Return and Non-Spring Return floating control motors used with controllers that provide a switched spdt or floating output to operate dampers or valves.

Application Type: Electric

Dimensions, Approximate: 6 7/16 in. high x 5 1/2 in. wide x 7 5/16 in. deep (164 mm high x 140 mm wide x 185 mm deep)

Control Signal: Floating

Feedback: Yes

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

Internal Transformer: None

Mounting: Foot-mounted

Shaft Shape: square

Shaft Dimensions: 0.375 in. (10 mm)

Shaft Rotation (upon control signal increase): Dependent on wiring (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)

These motors also have an internal electrically isolated feedback potentiometer that provides indication of the motor shaft position.

- 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)
- Integral auxiliary switches are available factory mounted, or can be field added
- All models have dual shafts (slotted and tapped on both ends)
- All models have auxiliary switch cams
- Fixed torque throughout the entire voltage range
- Motors are designed for either normally open or normally closed valves and dampers
- -F models have an internal electrically isolated feedback potentiometer that provides indication of the motor shaft position

Weight: 6.5 lb

Comments: Linear 10K feedback

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 motors

220741A2-62-Screw Terminal Adapter Kit for Series 62 Series 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

	Product Number	Fail Safe Mode	Torque/Force		Voltage	Timing (sec)		Electrical Connections	Motor Shafts	Internal Auxiliary Switch	Factory Stroke Setting	Stroke	Internal Transformer
			lb-in., lb	Nm, N		Nominal	Spring Return						
	M6274F1009-F/U	Non-Spring Return	75 lb-in.	8.5 Nm	24V	15/27	—	Screw terminals	Dual-ended shaft; 2	2	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	None
*	M6284D1032-F/U	Non-Spring Return	150 lb-in.	17 Nm	24V	30-60 sec	—	Quick-connect terminals	Dual-ended shaft	0	160 degrees	Adjustable; 90 to 160 degrees, Symmetrical	None
	M6284F1078-F/U	Non-Spring Return	150 lb-in.	17 Nm	24V	30/53	—	Screw terminals	Dual-ended shaft; 2	2	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	None
	M6285F1001-F/U	Spring Return	60 lb-in.	6.8 Nm	24V	30/53	30 sec.	Screw terminals	Dual-ended shaft; 2	2	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	None
	M6294F1009-F/U	Non-Spring Return	300 lb-in.	34 Nm	24V	120/214	—	Screw terminals	Dual-ended shaft; 2	2	160 degrees	Adjustable; 90 to 160 degrees, Symmetrical	None
	M6294F1017-F/U	Non-Spring Return	300 lb-in.	34 Nm	24V	60/107	—	Screw terminals	Dual-ended shaft; 2	2	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	None

* TRADELINE models • SUPER TRADELINE models