

## 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