

# Modutrol IV Motors

## M6184; M6194 Floating Modutrol IV™ Series 2 Motors



**Series 61 Modutrol IV™ Motors non-spring return floating control motors used with controllers that provide a switched spdt or floating output to operate dampers or valves.**

- 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

**Application Type:** Electric  
**Fail Safe Mode:** Non-Spring Return  
**Control Signal:** Floating  
**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

**Internal Transformer:** None

**Mounting:** Foot-mounted

**Motor Shafts:** Dual-ended shaft

**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)

**Weight:** 6.5 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 motors

**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	Torque/Force		Voltage	Nominal Timing (sec)	Internal Auxiliary Switch	Factory Stroke Setting	Stroke	Includes	Comments	Internal Transformer
	lb-in., lb	Nm, N								
M6184A1015/U	150 b-in.	17 Nm	24V	30-60 sec	0	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	—	None
M6184A1023/U	75 lb-in.	8.5 Nm	120V	15-30 sec	0	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	Transformer	—	50004263-003
M6184D1001/U	75 lb-in.	8.5 Nm	24V	15-30 sec	0	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	—	None
* M6184D1035/U	150 b-in.	17 Nm	24V	30-60 sec	0	160 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	—	None
M6184D1068/U	150 b-in.	17 Nm	24V	120-240 sec	0	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	Contains on-off pulsing circuitry to achieve timing	None
M6184F1014/U	150 b-in.	17 Nm	24V	30-60 sec	2	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	—	None
M6194B1011/U	300 b-in.	34 Nm	24V	60-120 sec	1	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	—	None
* M6194D1017/U	300 b-in.	34 Nm	24V	120-240 sec	0	160 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	—	None
M6194E1006/U	300 b-in.	34 Nm	24V	120-240 sec	1	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	—	None

\* TRADELINE models • SUPER TRADELINE models