

M6184; M6194 Floating Modutrol IV™ Series 2 Motors



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

- Replaces M644, and M944B,E,G,H,J,K,R,S Motors.
- Integral junction box provides NEMA 3 weather protection.
- Motor and circuitry operate from 24 Vac. Models available with factory installed transformer, or a field added internal transformer.
- 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°).
- Die-cast aluminum housing.
- Integral auxiliary switches are available factory mounted, or can be field added.
- Nominal timing standard of 30 seconds (90° stroke), and 60 seconds (180° stroke). Other timings available.
- 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.

Dimensions Diagram
See Diagram on page 23

Application Type: Electric
Fail Safe Mode: Non-Spring Return
Control Signal: Floating
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
Feedback: No
Electrical Connections: Quick-connect terminals
Frequency: 60 Hz, 50 Hz

Mounting: Foot mounted
Motor Shafts: Dual-ended shaft
Shaft Shape: square
Shaft Dimensions: 0.375 in. (10 mm)
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:
Canadian Standards Association: Certified: File No. LR1620, Guide No. 400-E
CE: EN55011 (Emission) EN50082-2 (Immunity) 73/23/EEC (LVD)
Underwriters Laboratories, Inc. Listed File: E4436, Guide: XAPX2

Product Number	Torque/Force		Voltage	Timing		Internal Auxiliary Switch	Stroke	Shaft Rotation (upon control signal increase)	Includes	Comments
	(lb-in., lb)	(Nm, N)		Nominal Timing (sec)						
M6184A1015	150 lb-in.	17 Nm	24V	30-60 sec	0	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	—	—	
M6184A1023	75 lb-in.	8.5 Nm	120V	15-30 sec	0	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	Transformer	—	
M6184D1001	75 lb-in.	8.5 Nm	24V	15-30 sec	0	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	—	—	
* M6184D1035	150 lb-in.	17 Nm	24V	30-60 sec	0	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	—	—	
M6184D1068	150 lb-in.	17 Nm	24V	120-240 sec	0	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	—	Contains on-off pulsing circuitry to achieve timing.	
M6184F1014	150 lb-in.	17 Nm	24V	30-60 sec	2	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	—	—	
M6194B1011	300 lb-in.	34 Nm	24V	60-120 sec	1	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	—	—	
* M6194D1017	300 lb-in.	34 Nm	24V	120-240 sec	0	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	—	—	
M6194E1006	300 lb-in.	34 Nm	24V	120-240 sec	1	Adjustable; 90° to 160°	Dependent on wiring (normally closed)	—	—	

* TRADELINE models • SUPER TRADELINE models