

Modutrol IV Motors

M6285 Floating Modutrol IV™ Series 2 Motors, for Slaving Applications only



Series 62 Modutrol IV™ Motors are spring return floating control motors used with controllers that provide a switched spdt or floating output to operate dampers or valves. These motors also have an internal electrically isolated feedback potentiometer that provides indication of the motor shaft position and can be used for slaving Series 90 motors or rebalancing an external control circuit.

- Integral junction box provides NEMA 3 weather protection if motor is mounted in the upright position
- Integral spring return returns motor to normal position 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 auxiliary end shafts for normally closed 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
- Motors are designed for either normally open or normally closed valves and dampers
- Include electrically isolated feedback potentiometer that provides shaft position indication

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: 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
Electrical Connections: Quick-connect terminals
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: 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:
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	Torque/Force		Voltage	Nominal Timing (sec)	Internal Auxiliary Switch	Factory Stroke Setting	Stroke	Comments	Internal Transformer
		lb-in., lb	Nm, N							
*	M6285A1005-S/U	60 lb-in.	6.8 Nm	24V	30-60 sec	0	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	non-linear feedback, for slaving applications only	None
*	M6285A4009-S/U	60 lb-in.	6.8 Nm	24V	30-60sec	0	160 degrees	Adjustable; 90 to 160 degrees	non-linear feedback, for slaving applications only	None
	M6285C1001-S/U	60 lb-in.	6.8 Nm	24V	30-60 sec	2	160 degrees	Adjustable; 90 to 160 degrees, Asymmetrical	non-linear feedback, for slaving applications only	None

* TRADELINE models • SUPER TRADELINE models