

Modutrol IV Motors

M6284; M6294 Floating Modutrol IV™ Series 2 Motors, for Slaving Applications only



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)

Fail Safe Mode: Non-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

Mounting: Foot-mounted; Dual-ended shaft

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.

These Series 62 Modutrol IV™ Motors non-spring return floating control motors are 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. Some models can be used for slaving Series 90 Motors.

- 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
- Include electrically isolated feedback potentiometer that provides shaft position indication
- -S models with non-linear feedback are for slaving applications only

Ambient Temperature Range: -40 F to +150 F (-40 C to +60 C)

Weight: 7.5 lb

Comments: non-linear feedback, for slaving applications only

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)	Electrical Connections	Internal Auxiliary Switch	Factory Stroke Setting	Stroke	Includes	Internal Transformer
	lb-in., lb	Nm, N								
M6284A1055-S/U	150 lb-in.	17 Nm	120V	30-60 sec	Quick-connect terminals	0	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	Transformer	50004263-003
M6284A1071-S/U	150 lb-in.	17 Nm	120V	30-60 sec	Screw terminals	0	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	Transformer	50004263-002
* M6284D1000-S/U	150 lb-in.	17 Nm	24V	30-60 sec	Quick-connect terminals	0	160 degrees	Adjustable; 90 to 160 degrees, Symmetrical	Slave with Series 90 Motors	None
* M6284D1026-S/U	150 lb-in.	17 Nm	24V	30-60 sec	Quick-connect terminals	0	90 degrees	Adjustable; 90 to 160 degrees, Symmetrical	220741A2-62 Screw Terminal Adapter Kit	None
* M6284D4004-S/U	150 lb-in.	17 Nm	24V	30-60 sec	Quick-connect terminals	0	160 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	None
M6284F1013-S/U	150 lb-in.	17 Nm	24V	30-60 sec	Quick-connect terminals	2	160 degrees	Adjustable; 90 to 160 degrees, Symmetrical	—	None
* M6294D1008-S/U	300 lb-in.	34 Nm	24V	120-240 sec	Quick-connect terminals	0	160 degrees	Adjustable; 90 to 160 degrees	—	None

* TRADELINE models • SUPER TRADELINE models