

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