

Modutrol IV Motors

M9182 Modutrol IV™ Series 3 Motors



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: Proportional, 135 ohm
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): Clockwise (as viewed from power end) (normally closed)
Deadweight Load on Shaft (Either End): 200 lbs.

Series 90 Modutrol™ IV Motors spring return modulating proportional control motors used with controllers that provide a Series 90 output to operate dampers or valves.

- 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

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
Underwriters Laboratories, Inc: Listed: File No. E4436, Guide No. XAPX for USA and Canada

Accessories:
Q7230A1005-Interface module, provides adjustable zero & span, voltage or current control
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
220741 A2-90-Screw Terminal Adapter Kit for Series 90 Modutrol IV Series 2 and Series 3 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 | Internal Transformer |
|----------------|--------------|--------|---------|----------------------|---------------------------|------------------------|---|----------------------|
| | lb-in., lb | Nm, N | | | | | | |
| M9182A1011/U | 60 lb-in. | 6.8 Nm | 24V | 30-60 sec | 0 | 160 degrees | Adjustable; 90 to 160 degrees, Asymmetrical | None |