

## M7364, M7384 Modutrol IV™ Motors

### SPECIFICATION DATA



### APPLICATION

These Electronic Modutrol IV™ Motors provide proportioning control of dampers and valves when used with W936, W945, and W973 Electronic Control Panels.

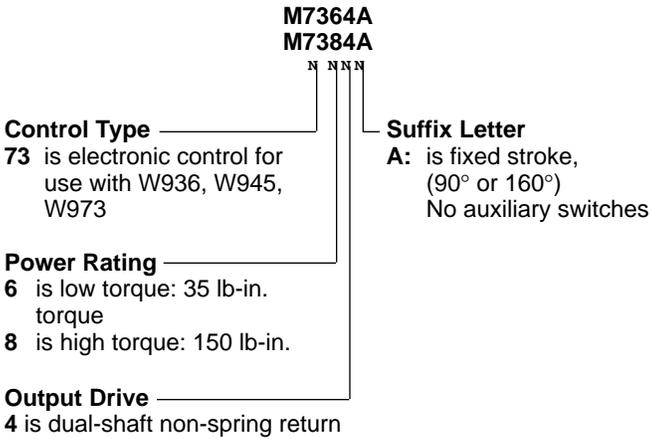
### FEATURES

- M7364 replaces M734D and M734E Motors, M7384 replaces M744A and M744B Motors.
- Oil immersed motor and gear train for reliable performance and long life.
- Wiring box provides NEMA 3 weather protection.
- Actuator motor and circuitry operate from 24 Vac Models available with factory installed transformer, or an internal transformer can be field added.
- Quick-connect terminals standard—screw terminal adapter available.
- Adapter bracket for matching shaft height of older motors is standard for replacement motors.
- Fixed stroke 90° or 160° models available.
- Nominal timing of 30 seconds for 90° and 60 seconds for 160° stroke.
- Die-cast aluminum housing.
- Available accessories include valve and damper linkages, explosion proof housing, and auxiliary switches.
- M7364 rated for 35 lb-in. torque; M7384 rated for 150 lb-in. torque.



# SPECIFICATIONS

## Standard Models



**Motor Rotation:**  
 Normally closed electrically; M7364/M7384 drives to the full counterclockwise ↺ position as viewed from the power end when the input signal is at a minimum.

**Stroke:**  
 Fixed 90° or 160° stroke models available.

**Timing:**  
 Nominal 30 seconds for 90° stroke and 60 seconds for 160° stroke.

**Dead Weight Load On Shaft:**  
 Power End—200 lb (90.8 kg) maximum for M7384. 100 lb (45.4 kg) maximum for M7364.  
 Auxiliary End—200 lb (90.8 kg) maximum for M7384. 100 lb (45.4 kg) maximum for M7364.

**Ambient Temperature Ratings:**  
 Maximum: 150°F (66°C) at 25% duty cycle.  
 Minimum: Minus 40°F (-40°C).

**Shaft:**  
 3/8 in. (9.5 mm) square. M7364, M7384 Motors have double-ended shaft.

**Dimensions:**  
 See Fig. 1.

### Electrical Ratings: M7364A

M7364, M7384	Voltage Vac at 50/60 Hz	Current Draw (A)	Power Consumption (W)
Without Transformer	24	0.62	14
With Transformer	120	0.20	19

### Electrical Ratings: M7384A

Without Transformer	24	0.80	18
With Transformer	120	0.24	23

**Underwriters Laboratories Inc. Listed:**  
 File No. E4436, Guide No. XAPX.

**Canadian Standards Association Certified:**  
 General Listing File No. LR1620, Guide 400-E.

### Accessories:

- ES650117 Explosion-proof Housing: Encloses motor for use in explosive atmospheres. Not for use with Q601, Q618, and Q455 Linkages. Order separately from Nelson Electric Co. Requires Honeywell 7617DM Coupling.
- Q607 External Auxiliary Switch: Controls auxiliary equipment as a function of motor position.
- Q605 Damper Linkage: Connects motor to damper. *Includes motor crank arm.*
- Q618 Linkage: Connects Modutrol Motor to water or steam valve.
- Q601 Bracket and Linkage Assembly: Connects Modutrol Motor to water or steam valve.
- Q100A,B Linkage: Connects Modutrol Motor to butterfly valve.
- 221455A Motor Crank Arm: Infinitely adjustable crank arm. Approximately 0.75 in. shorter than the 4074ELY Crank Arm; can rotate through downward position and clear base of motor without requiring use of adapter bracket.
- 7617ADW Motor Crank Arm: Approximately 0.75 in. shorter than the 7616 BR Crank Arm; can rotate through the downward position and clear base of motor without requiring use of adapter bracket.
- 220741A Screw Terminal Adapter: Converts the standard quick-connect terminals to screws terminals.
- Transformers: Mounted internally, provide 24 Vac power to motor
  - 198162JA—24 Vac; 50/60 Hz (for electrical isolation).
  - 198162EA—120 Vac; 50/60 Hz.
  - 198162GA—220 Vac; 50/60 Hz.
  - 198162AA—120/208/240 Vac; 50/60 Hz.
- 4074EAC Resistor Kit: For use with W973 Logic Panels.

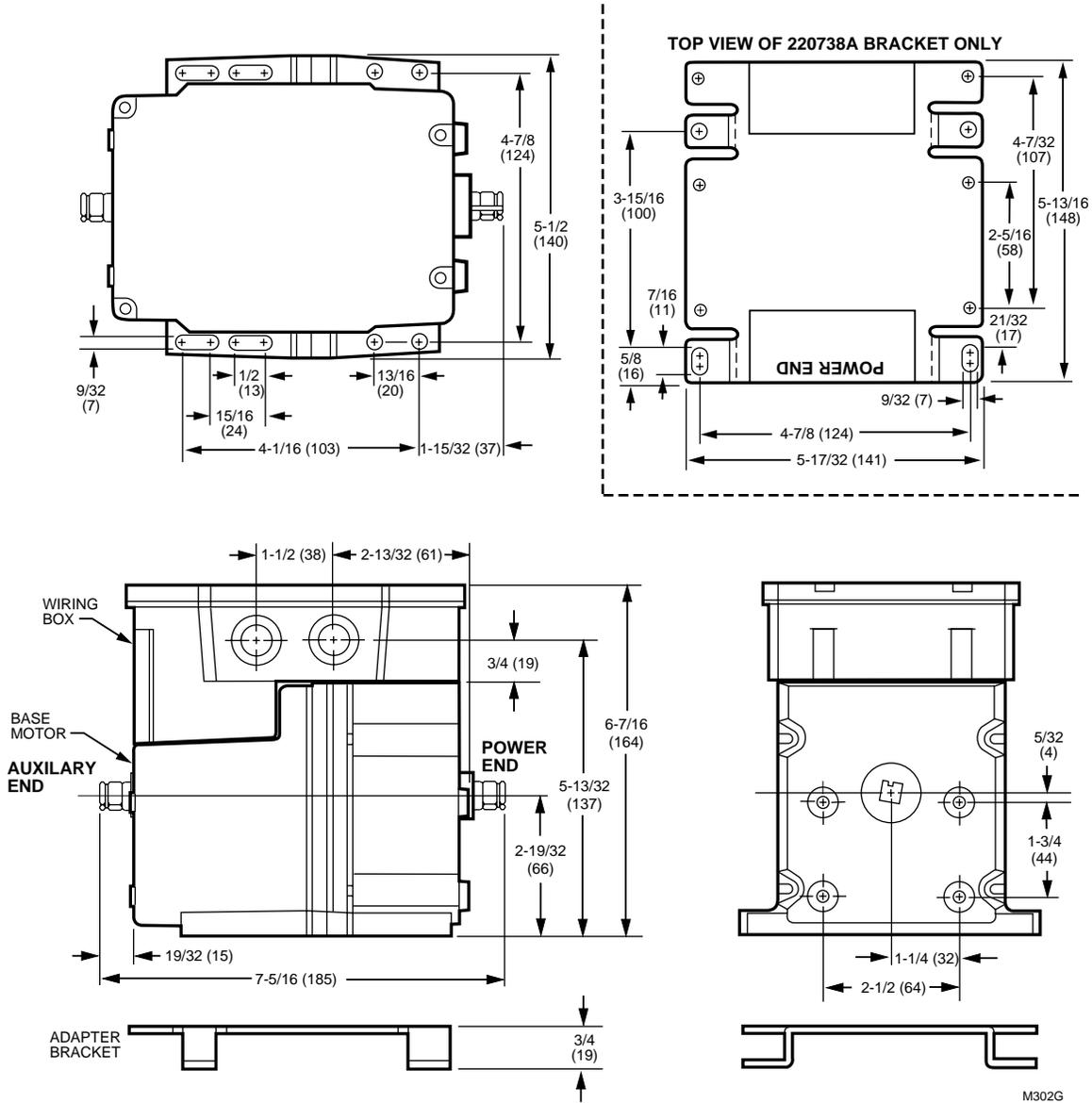


Fig. 1. Dimensions in in. (mm in brackets).

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