ML7984
Fully Modulating Valve Actuator

*Self-contained, motorized valve linkage.*
*Linkage self-adjusts to valve stroke of up to 19mm (3/4")*
*Multipoise mounting*
*Strong valve seat closing force 710 Newton (160 lbs.)*
*Compact size for easy installation in confined areas*
*Electronic current sensing provides internal protection and positive full closing force*
*Field addable auxiliary switches available*
*Separate models available for V5011/13 A and C or V5011/13 F and G valve body types*

*• Allows the use of one common transformer power supply for multiple actuators and controllers*
*• Compatible with 3-wire system (one common wire for both signal & power input)*
*• Field-configurable DIP switches for Direct / Reverse action*
*• Field-configurable DIP switches for Series 70 / 90 control function*
*• Field-selectable terminals for 2-10Vdc / 4-20 mA control input*
*• One device for either Vac / Vdc power supply application*

The ML7984 is a self-contained, self-adjusting, linear motorized linkage that mounts directly onto V5011 two-way or V5013 three-way valves and provides up to 19 mm (3/4") of linear travel (stem lift). For use with Series 70 2-10Vdc;4-20mA and Series 90 135Ω; Electronic "Super Mod" modulating controllers.

### Specifications

<table>
<thead>
<tr>
<th>Models:</th>
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<tbody>
<tr>
<td><strong>Model Numbers</strong></td>
<td><strong>Valve Types</strong></td>
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<tr>
<td>ML7984A3001</td>
<td>V5011 / V5013 F,G</td>
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<tr>
<td>ML7984A3019</td>
<td>V5011 / V5013 A,C</td>
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### Electrical Ratings:

- **Power supply/consumption:**
  - 24V (Nominal), 50/60Hz or 24 to 28 Vdc
  - 6VA(Running), 12VA(Valve seating)**

### Ambient Rating:

- **Operating Temperature:** 0°C to 55°C (32°F to 130°F)
- **Shipping Temperature:** -40°C to +65°C (-40°F to 150°F)
- **Relative Humidity:** 15% to 95% at 40°C (104°F)
Acoustic Noise:
55 DBA max. Sound Pressure Level at 1 m (39") distance.

Input Impedance:
Voltage Model -- 20 KOhm
Current Model -- 237 Ohm

Mechanical Ratings:
Stroke--19mm (3/4") or less
Stroke timing-- Approx. 65 seconds for 3/4" stroke
Closing Force-- 710N (160 lbs.) minimum*
1070N (240 lbs.) maximum*
Breakaway Force-- 710N (160 lbs.)
Stalling Force-- 2225N (500 lbs.) maximum*

*Rating applies to both directions.
**Also during stall condition.

Performance Specifications:
Life Expectancy-- (at rated load and power conditions)
50,000 full stroke cycles plus
1,000,000 repositions at 10% stem travel or 10 years,
whichever occurs first.
Number of steps-- 40 +/- 10 per full stroke.
Note: rapid repositioning will result in reduced service
life of the actuator.

Shipping Weight:
Approx. 1 kg (2.2 lbs)

ACCESSORIES/PARTS
272630A--Auxiliary switch assembly (1-SPDT)
272630B--Auxiliary switch assembly (2-SPDT)
272775--Replacement motor brush kit
40003793-003--Mounting hardware bag assembly
272822-- Resistor kit for multiple Series 90 application
and for ML7984 to replace old ML784 (4-20mA)

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