ML7421A,B Electric Linear Valve Actuator

SPECIFICATION DATA



APPLICATION

The ML7421A,B Electric Linear Valve Actuators are modulating control motors for use with low-voltage controls that provide an analog output of 0 to 10 Vdc or 2 to 10 Vdc. These actuators operate standard Honeywell valves in heating, ventilating, and air conditioning (HVAC) applications.

FEATURES

- Quick and easy installation.
- · No separate linkage required.
- 3/4 in. (20 mm) stroke on ML7421A; 1-1/2 in. (38 mm) stroke on ML7421B.
- · No adjustments required.
- · Accurate valve positioning.
- Low power consumption.
- · High close-off ratings.
- · Force-limiting end switches.
- · Manual operator.
- · Synchronous motor.
- · Corrosion-resistant design.
- Maintenance free.
- · Conduit connector knockout.



SPECIFICATIONS

Models:

Model No.	Description	Signal Input	Stroke in in. (mm)	Run Time in sec at 60 Hz
ML7421A1008	Electric Linear	2 to 10 Vdc or 0 to 135 ohm	3/4 (20)	95
ML7421A1024	Valve Actuator	0 to 10 Vdc		
ML7421B1007		2 to 10 Vdc or 0 to 135 ohm	1-1/2 (38)	175
ML7421B1015		0 to 10 Vdc		

Dimensions:

See Fig. 1.

Weight:

5.1 lb (2.3 kg).

Electrical Ratings:

Power Input: 24 Vac (+10%, -15%), 60 Hz. Power Consumption: 12 VA maximum at 24 Vac.

Stem Force:

405 lbf (1800N).

Ambient Temperature Range:

14°F to 122°F (-10°C to +50°C).

Storage Temperature Range:

-40°F to +158°F (-40°C to +70°C).

Humidity:

5 to 95 percent relative humidity, noncondensing.

Protection Standard:

IP54.

Insulation:

Class III (24 Vac).

Approvals:

UL94-5V Flame Retardant. Meets CE standards.

Cable entry:

Two knockout holes for 1/2 in. and 3/4 in. conduit standard on actuator case.

Actuator Material:

Cover: ABS plastic.

Yoke and Base: Diecast aluminum.

Accessories:

NOTE: The following dual auxiliary potentiometers can be

added but provide only a single auxiliary

potentiometer function.

43191679-003 Dual 220 Ohm Auxiliary Potentiometer for

ML7421A.

43191679-004 Dual 220 Ohm Auxiliary Potentiometer for

ML7421B.

43191680-002 Dual Auxiliary Switch for ML7421A,B (for

24 Vac use only).

Table 1. Closeoff Ratings in psi for ML7421A,B Electric Linear Valve Actuators.

Valve	Туре	1/2 in.	3/4 in.	1 in.	1-1/4 in.	1-1/2 in.	2 in.	2-1/2 in.	3 in.	4 in.a	5 in.a	6 in.a
V5011A	Flange	N/A	N/A	N/A	N/A	N/A	N/A	77	53	29	18	12
V5011B	Flange	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	29	18	12
V5011F	Screw	150	150	150	150	150	150	100	61	N/A	N/A	N/A
V5011G	Screw	150	150	150	150	150	150	100	61	N/A	N/A	N/A
V5013B	Flange	N/A	N/A	N/A	N/A	N/A	N/A	77	53	29	18	12
V5013C	Flange	N/A	N/A	N/A	N/A	N/A	N/A	77	53	29	18	12
V5013F	Screw	150	150	150	150	150	150	N/A	N/A	N/A	N/A	N/A

aOnly for use with ML7421B Actuator.

63-1258

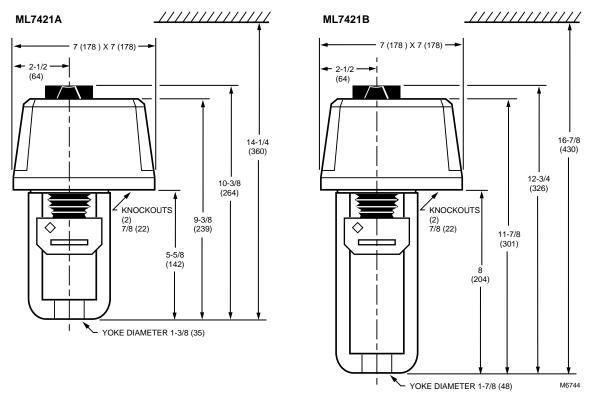


Fig. 1. Approximate dimensions of ML7421A,B Electric Linear Valve Actuator in in. (mm).

3

63-1258

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