

MODELS MS7510IAQ & MS7520IAQ

DIRECT COUPLED PROPORTIONAL SPRING RETURN ACTUATOR FOR USE WITH IAQ CONTROLLER

COMMON FEATURES

- Proportional control input.
- Brushless DC submotor with electronic stall protection.
- Self-centering (clamping type) shaft adapter.
- Plenum rated plastic access cover to facilitate connectivity.
- Cast aluminum housing with built-in mechanical end limits.
- Shaft position indicator and scale.
- UL (cUL) listed and CE compliant.
- Plenum-rated per UL873.
- NEMA 2 environmental rating.

OPTIONS

External Auxiliary Switch (SW2-US)



MS7510IAQ SPECIFIC FEATURES

TORQUE

88 in-lb (10 Nm) (rated for 12¹/₂ [1.16 sqm] square feet of IAQ damper face area).

STALL TORQUE

Maximum 175 in-lb (20 Nm).

ANGLE OF ROTATION

95° ± 3°, mechanically limited.

POSITION INDICATOR

Visual Indicator.

MANUAL OVERRIDE

3 mm crank.

DIMENSIONS

9.72" x 3.94" x 2.95" (247 x 100 x 75).

WEIGHT

6 lb. (2.72 kg)

ELECTRICAL CONNECTION

Field Wiring 14 to 22 AWG (2.0 to .344 mm sq) to screw terminals.

CONTROL SIGNAL

0 or 2 to 10 Vdc.

POSITION FEEDBACK

2 to 10 Vdc (driving current is 3 mA min.)

POWER SUPPLY

24 Vac ±20% (Class 2), 50/60 Hz.

POWER CONSUMPTION (VA)

14 Driving/5 Holding.

INPUT IMPEDANCE

95K ohms minimum.

RUNNING TIME

90 seconds driving @ 60HZ, 20 sec. spring closed.

OVERLOAD PROTECTION

Electronic throughout rotation.

TEMPERATURE RANGE

-40°F to +140°F (-40°C to +60°C).

MS7520IAQ SPECIFIC FEATURES

TORQUE

175 in-lb (20 Nm) (rated for 25 [2.32 sqm] square feet of damper face area).

STALL TORQUE

Maximum 350 in-lb (40 Nm).

ANGLE OF ROTATION

95° ± 3°, mechanically limited.

POSITION INDICATOR

Visual Indicator.

MANUAL OVERRIDE

3 mm crank.

DIMENSIONS

9.72" x 3.94" x 2.95" (247 x 100 x 75).

WEIGHT

6 lb. (2.72 kg)

ELECTRICAL CONNECTION

Field Wiring 14 to 22 AWG (2.0 to .344 mm sq) to screw terminals.

CONTROL SIGNAL

0 or 2 to 10 Vdc.

POSITION FEEDBACK

2 to 10 Vdc (driving current is 3 mA min.).

POWER SUPPLY

24 Vac ± 20% (Class 2), 50/60 Hz.

POWER CONSUMPTION (VA)

16 Driving/5 Holding.

INPUT IMPEDANCE

95K ohms minimum.

RUNNING TIME

90 seconds constant, <20 sec. spring return fail safe position.

OVERLOAD PROTECTION

Electronic throughout rotation.

TEMPERATURE RANGE

-40°F to +140°F (-40°C to +60°C).

Values shown in parenthesis () indicate metric units.



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